SEQUENCE LISTING

<110>   Pharmacia Corp.
        Broschat, Kay

<120>   ANTISENSE MODULATION OF GFAT EXPRESSION

<130>   01393/1

<150>   60/419,268
<151>   2002-10-17

<160>   3071

<170>   PatentIn version 3.2

<210>   1
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1
atggtctcag tatcctcctt   20

<210>   2
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2
gggggccggg gtggcgccga   20

<210>   3
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   3
ggtctcagta tcctccttat   20

<210>   4
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

1

<400> 4
tggtctcagt atcctcctta   20

<210> 5
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 5
ctcgggggcc ggggtggcgc   20

<210> 6
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 6
aatggtctca gtatcctcct   20

<210> 7
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 7
tttatcagag cgctgggggt   20

<210> 8
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 8
tcgggggccg gggtggcgcc   20

<210> 9
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 9
ggcttcaagg ggtgatattt   20

<210> 10
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 10
aggcttcaag gggtgatatt   20

<210> 11
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 11
aggtgtcttg tgttgcttaa   20

<210> 12
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 12
aaggtgtctt gtgttgctta   20

<210> 13
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 13
ggctcggggg ccggggtggc   20

<210> 14
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 14
taatggtctc agtatcctcc   20

<210> 15
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 15
aaggcttcaa ggggtgatat   20

<210> 16
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 16
ggggccgggg tggcgccgac   20

<210> 17
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 17
gcccgcgagg ccaggggcga   20

<210> 18
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 18
ttttatcaga gcgctggggg   20

<210> 19
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  19
ggtgtcttgt gttgcttaat                                                          20


<210>  20
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  20
gcttcaaggg gtgatatttt                                                          20


<210>  21
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  21
ctttgatttt cagtgcccct                                                          20


<210>  22
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  22
aaaggtgtct tgtgttgctt                                                          20


<210>  23
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  23
gctcgggggc cggggtggcg                                                          20


<210>  24
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 24
aaaggcttca aggggtgata   20

<210> 25
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 25
cccgcgaggc caggggcgag   20

<210> 26
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 26
ttatcagagc gctgggggtg   20

<210> 27
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 27
gtctcagtat cctccttatc   20

<210> 28
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 28
aaaaggcttc aaggggtgat   20

<210> 29
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 29
gcgggctcgg gggccggggt   20

<210> 30
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 30
cttaatggtc tcagtatcct   20

<210> 31
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 31
ttgactcttc ctctcattgt   20

<210> 32
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 32
gttgactctt cctctcattg   20

<210> 33
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 33
agttgactct tcctctcatt   20

<210> 34
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 34
aaaaggtgtc ttgtgttgct   20

<210> 35
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 35
tgactcttcc tctcattgtg   20

<210> 36
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 36
gtcacttgct agttccacca   20

<210> 37
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 37
cggcccgcga ggccaggggc   20

<210> 38
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 38
ttaatggtct cagtatcctc   20

<210> 39
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 39
tcttaatggt ctcagtatcc   20

<210> 40
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 40
caaaaggtgt cttgtgttgc   20

<210> 41
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 41
ccgcgaggcc aggggcgagt   20

<210> 42
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 42
gatctgctgg agttccatct   20

<210> 43
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 43
tgattttcag tgccccttca   20

<210> 44
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 44
cggggggccgg ggtggcgccg   20

<210> 45
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 45
aacttcttca tccagtgcct   20

<210> 46
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 46
gagcgctggg ggtggctatt   20

<210> 47
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 47
aagttgactc ttcctctcat   20

<210> 48
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 48
tcagttgtcc aaagcagctt   20

<210> 49
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  49
gggctcgggg gccggggtgg                                           20


<210>  50
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  50
tttttatcag agcgctgggg                                           20


<210>  51
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  51
agtcacttgc tagttccacc                                           20


<210>  52
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  52
ttgattttca gtgccccttc                                           20


<210>  53
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  53
tgcgggctcg ggggccgggg                                           20


<210>  54
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  54
agcgctgggg gtggctattg                                          20


<210>  55
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  55
ccaccgggaa aaggcaggtt                                          20


<210>  56
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  56
acttcttcat ccagtgcctt                                          20


<210>  57
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  57
tccaccggga aaaggcaggt                                          20


<210>  58
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  58
tggtgatgat tccattgtga                                          20


<210>  59
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 59
catcacacat cataagggca   20

<210> 60
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 60
tccgatcatc acacatcata   20

<210> 61
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 61
cagttgtcca aagcagcttg   20

<210> 62
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 62
gaacttcttc atccagtgcc   20

<210> 63
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 63
tgatctgctg gagttccatc   20

<210> 64
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

13

<400> 64
agttgtccaa agcagcttga   20

<210> 65
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 65
agagcgctgg gggtggctat   20

<210> 66
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 66
cacttgctag ttccaccatc   20

<210> 67
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 67
tcacttgcta gttccaccat   20

<210> 68
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 68
aaagttgact cttcctctca   20

<210> 69
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 69
caaagttgac tcttcctctc   20

<210> 70
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 70
tcaaagttga ctcttcctct   20

<210> 71
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 71
tcatcacaca tcataagggc   20

<210> 72
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 72
tctcagtatc ctccttatca   20

<210> 73
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 73
gttggtgatg attccattgt   20

<210> 74
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 74
tatcagagcg ctgggggtgg 20

<210> 75
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 75
tgctggagtt ccatctggag 20

<210> 76
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 76
tcctctcatt gtgttcacga 20

<210> 77
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 77
gtgtcttgtg ttgcttaatc 20

<210> 78
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 78
aaaaaaggct tcaaggggtg 20

<210> 79
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 79
gttgtccaaa gcagcttgaa   20

<210> 80
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 80
ggccggggtg gcgccgacac   20

<210> 81
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 81
agttgccctt catgatctgc   20

<210> 82
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 82
gattttcagt gccccttcaa   20

<210> 83
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 83
tttgattttc agtgcccctt   20

<210> 84
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  84
cttcttcatc cagtgcctta                                        20


<210>  85
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  85
ttcttaatgg tctcagtatc                                        20


<210>  86
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  86
aaaaaaaggc ttcaaggggt                                        20


<210>  87
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  87
gggccggggt ggcgccgaca                                        20


<210>  88
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  88
agttggtgat gattccattg                                        20


<210>  89
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 89
cttcctctca ttgtgttcac   20

<210> 90
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 90
ccgatcatca cacatcataa   20

<210> 91
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 91
atccgatcat cacacatcat   20

<210> 92
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 92
cgcgaggcca ggggcgagtg   20

<210> 93
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 93
ttcctctcat tgtgttcacg   20

<210> 94
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 94
atttctttga ttttcagtgc   20

<210> 95
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 95
ctccatgtgt tgcccaacgg   20

<210> 96
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 96
ctcttcctct cattgtgttc   20

<210> 97
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 97
actcttcctc tcattgtgtt   20

<210> 98
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 98
acttgctagt tccaccatca   20

<210> 99
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  99
ccaggaagtc acttgctagt                                               20


<210>  100
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  100
acggcccgcg aggccagggg                                               20


<210>  101
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  101
gggttctcca tgtgttgccc                                               20


<210>  102
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  102
tagttggtga tgattccatt                                               20


<210>  103
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  103
gtctgtttca gattcgaagt                                               20


<210>  104
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 104
gcccttcatg atctgctgga 20

<210> 105
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 105
catcaaagtt gactcttcct 20

<210> 106
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 106
atcacacatc ataagggcaa 20

<210> 107
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 107
tgtcagttgt ccaaagcagc 20

<210> 108
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 108
tttctcgtct cgttcgagga 20

<210> 109
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 109
tcttcctctc attgtgttca   20

<210> 110
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 110
gaagtcactt gctagttcca   20

<210> 111
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 111
ggaagtcact tgctagttcc   20

<210> 112
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 112
ctggtctgaa tgaagtatgg   20

<210> 113
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 113
ttgtcagttg tccaaagcag   20

<210> 114
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 114
attgtcagtt gtccaaagca   20

<210> 115
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 115
gcgctggggg tggctattga   20

<210> 116
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 116
cgggctcggg ggccggggtg   20

<210> 117
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 117
tcggtgggca atctgcgggc   20

<210> 118
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 118
tctgtttcag attcgaagtc   20

<210> 119
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  119
atcaaagttg actcttcctc                                                   20


<210>  120
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  120
gtccaaagca gcttgaattt                                                   20


<210>  121
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  121
gatttctcgt ctcgttcgag                                                   20


<210>  122
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  122
ggatttctcg tctcgttcga                                                   20


<210>  123
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  123
ggtgatgatt ccattgtgaa                                                   20


<210>  124
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  124
tcgaagtcat agcctttgct                                                        20


<210>  125
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  125
ttctccatgt gttgcccaac                                                        20


<210>  126
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  126
atcagagcgc tgggggtggc                                                        20


<210>  127
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  127
ttccaccggg aaaaggcagg                                                        20


<210>  128
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  128
tggagttcca tctggagtgt                                                        20


<210>  129
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 129
tcatcaaagt tgactcttcc   20

<210> 130
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 130
aagtcacttg ctagttccac   20

<210> 131
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 131
gcctttgtac tggccacacc   20

<210> 132
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 132
tgtccaaagc agcttgaatt   20

<210> 133
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 133
ttgtccaaag cagcttgaat   20

<210> 134
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 134
atttttatca gagcgctggg 20

<210> 135
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 135
ttcgaagtca tagcctttgc 20

<210> 136
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 136
tcttccaccg ggaaaaggca 20

<210> 137
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 137
tgcccttcat gatctgctgg 20

<210> 138
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 138
ggcccgcgag gccaggggcg 20

<210> 139
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 139
atttctcgtc tcgttcgagg   20

<210> 140
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 140
ggtatgagct attccaaggt   20

<210> 141
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 141
tctccatgtg ttgcccaacg   20

<210> 142
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 142
agagggctac ctcgccttgt   20

<210> 143
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 143
ctgctttttc ttccaccggg   20

<210> 144
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 144
tcacacatca taagggcaaa   20

<210> 145
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 145
atcatcacac atcataaggg   20

<210> 146
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 146
taatttcttt gattttcagt   20

<210> 147
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 147
gtaatttctt tgattttcag   20

<210> 148
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 148
agtaatttct ttgattttca   20

<210> 149
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 149
gcttgtgaac ttcttcatcc   20

<210> 150
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 150
ttctttgatt ttcagtgccc   20

<210> 151
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 151
aaaaaggctt caaggggtga   20

<210> 152
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 152
ttctcgtctc gttcgaggaa   20

<210> 153
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 153
gtagttggtg atgattccat   20

<210> 154
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  154
cgaagtcata gcctttgctt                                              20


<210>  155
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  155
ggagttccat ctggagtgtt                                              20


<210>  156
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  156
gttcttaatg gtctcagtat                                              20


<210>  157
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  157
gttgcttaat catacagttt                                              20


<210>  158
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  158
tgtgaacttc ttcatccagt                                              20


<210>  159
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 159
cttccaccgg gaaaaggcag   20

<210> 160
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 160
gactcttcct ctcattgtgt   20

<210> 161
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 161
gtactggcca caccaatctc   20

<210> 162
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 162
gatccgatca tcacacatca   20

<210> 163
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 163
ccttccctaa ctgtccaagt   20

<210> 164
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 164
gttgcccttc atgatctgct   20

<210> 165
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 165
cctctcattg tgttcacgac   20

<210> 166
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 166
tctttgattt tcagtgcccc   20

<210> 167
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 167
taaaaaaagg cttcaagggg   20

<210> 168
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 168
tgaacttctt catccagtgc   20

<210> 169
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 169
gggtatgagc tattccaagg   20

<210> 170
<211> 20
<212> DNA
<213> artificial

<220>   .
<223> human GFAT antisense

<400> 170
tccatgtgtt gcccaacggg   20

<210> 171
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 171
agtcatagcc tttgctttcc   20

<210> 172
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 172
ttcttccacc gggaaaaggc   20

<210> 173
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 173
tgtactggcc acaccaatct   20

<210> 174
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 174
tttctttgat tttcagtgcc   20

<210> 175
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 175
aggggtgata ttttaaatca   20

<210> 176
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 176
acactgccac tggctttaga   20

<210> 177
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 177
agcttgaatt taaagtttgt   20

<210> 178
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 178
ctgcgggctc gggggccggg   20

<210> 179
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 179
gttccatctg gagtgtttgc   20

<210> 180
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 180
ctgctggagt tccatctgga   20

<210> 181
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 181
ttcaaggggt gatattttaa   20

<210> 182
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 182
ctaaaaaaag gcttcaaggg   20

<210> 183
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 183
cggtgggcaa tctgcgggct   20

<210> 184
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  184
agccgtttca atccaagcat                                              20


<210>  185
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  185
gaagtcatag cctttgcttt                                              20


<210>  186
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  186
atgatctgct ggagttccat                                              20


<210>  187
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  187
cctttgtact ggccacacca                                              20


<210>  188
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  188
tcaaggggtg atattttaaa                                              20


<210>  189
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 189
gttgcccaac gggtatgagc   20

<210> 190
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 190
ggttctccat gtgttgccca   20

<210> 191
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 191
actgcttttt cttccaccgg   20

<210> 192
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 192
atctgctgga gttccatctg   20

<210> 193
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 193
ttgcttaatc atacagtttc   20

<210> 194
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 194
tggtctgaat gaagtatggt   20

<210> 195
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 195
cttccctaac tgtccaagta   20

<210> 196
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 196
acacggcccg cgaggccagg   20

<210> 197
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 197
tcagagcgct gggggtggct   20

<210> 198
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 198
aagtcatagc ctttgctttc   20

<210> 199
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  199
ctgtttcaga ttcgaagtca                                              20


<210>  200
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  200
ggtatcttga ctttcccgat                                              20


<210>  201
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  201
cccttcatga tctgctggag                                              20


<210>  202
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  202
caggaagtca cttgctagtt                                              20


<210>  203
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  203
tccaggaagt cacttgctag                                              20


<210>  204
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  204
gatcatcaca catcataagg                                              20


<210>  205
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  205
tgttgcttaa tcatacagtt                                              20


<210>  206
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  206
gtatgagcta ttccaaggtg           .                                  20


<210>  207
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  207
tgtcttgtgt tgcttaatca                                              20


<210>  208
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  208
tccaaagcag cttgaattta                                              20


<210>  209
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 209
gtcagttgtc caaagcagct   20

<210> 210
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 210
ttgcccaacg ggtatgagct   20

<210> 211
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 211
tgggttctcc atgtgttgcc   20

<210> 212
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 212
tgctttttct tccaccggga   20

<210> 213
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 213
gatctccttt atgtgatcct   20

<210> 214
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  214
caaggggtga tattttaaat                                                      20


<210>  215
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  215
gcgaggccag gggcgagtgg                                                      20


<210>  216
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  216
tctcgtctcg ttcgaggaac                                                      20


<210>  217
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  217
ttgtgaactt cttcatccag                                                      20


<210>  218
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  218
gtcatcaaag ttgactcttc                                                      20


<210>  219
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 219
tctggatctc ctttatgtga   20

<210> 220
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 220
aggaagtcac ttgctagttc   20

<210> 221
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 221
aagtaatttc tttgattttc   20

<210> 222
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 222
ctcagtatcc tccttatcac   20

<210> 223
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 223
ttccctaact gtccaagtat   20

<210> 224
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 224
gttgcttgtg aacttcttca   20

<210> 225
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 225
tgttgcttgt gaacttcttc   20

<210> 226
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 226
ttgtactggc cacaccaatc   20

<210> 227
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 227
cgatcatcac acatcataag   20

<210> 228
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 228
attttcagtg ccccttcaag   20

<210> 229
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 229
gtgttgccca acgggtatga   20

<210> 230
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 230
aaggggtgat attttaaatc   20

<210> 231
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 231
agttttacag tttgatttaa   20

<210> 232
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 232
aggcctttga ttagggtctc   20

<210> 233
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 233
gtcatagcct ttgctttcca   20

<210> 234
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 234
gtatcctcct tatcacaaat   20

<210> 235
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 235
agtatcctcc ttatcacaaa   20

<210> 236
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 236
tgttcttaat ggtctcagta   20

<210> 237
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 237
actaaaaaaa ggcttcaagg   20

<210> 238
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 238
actctttcac tggtctgaat   20

<210> 239
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  239
ggcctttgat tagggtctcc                                                    20


<210>  240
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  240
ttgttgcttg tgaacttctt                                                    20


<210>  241
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  241
gacaggactg ggttctccat                                                    20


<210>  242
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  242
tgacaggact gggttctcca                                                    20


<210>  243
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  243
ctggatctcc tttatgtgat                                                    20


<210>  244
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 244
ggggtgatat tttaaatcaa   20

<210> 245
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 245
gccggggtgg cgccgacacg   20

<210> 246
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 246
ttggtgatga ttccattgtg   20

<210> 247
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 247
ccttcatgat ctgctggagt   20

<210> 248
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 248
ctagttccac catcacaggc   20

<210> 249
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 249
gctagttcca ccatcacagg   20

<210> 250
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 250
gtgatgattc cattgtgaat   20

<210> 251
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 251
gggctacctc gccttgtgcc   20

<210> 252
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 252
aatgaactga agttgccctt   20

<210> 253
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 253
cacacatcat aagggcaaac   20

<210> 254
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 254
cagccgtttc aatccaagca   20

<210> 255
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 255
aatttctttg attttcagtg   20

<210> 256
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 256
catattgtca gttgtccaaa   20

<210> 257
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 257
ggtgggcaat ctgcgggctc   20

<210> 258
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 258
caacgggtat gagctattcc   20

<210> 259
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  259
tgtctgtttc agattcgaag                                            20


<210>  260
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  260
ggctacctcg ccttgtgcca                                            20


<210>  261
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  261
gagggctacc tcgccttgtg                                            20


<210>  262
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  262
ggatctcctt tatgtgatcc                                            20


<210>  263
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  263
cttgctagtt ccaccatcac                                            20


<210>  264
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 264
tacactgcca ctggctttag   20

<210> 265
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 265
atattgtcag ttgtccaaag   20

<210> 266
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 266
aggatttctc gtctcgttcg   20

<210> 267
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 267
gtatcttgac tttcccgatt   20

<210> 268
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 268
tttcttccac cgggaaaagg   20

<210> 269
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  269
taagtaattt ctttgatttt                                              20


<210>  270
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  270
atacaaaagg tgtcttgtgt                                              20


<210>  271
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  271
ggatttacta aaaaaggct                                               20


<210>  272
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  272
catccagtgc cttaactttt                                              20


<210>  273
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  273
ccatgtgttg cccaacgggt                                              20


<210>  274
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 274
gactgggttc tccatgtgtt   20

<210> 275
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 275
ttgtctctgt gtctgtttca   20

<210> 276
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 276
ctggccacac caatctcagg   20

<210> 277
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 277
ataagtaatt tctttgattt   20

<210> 278
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 278
tacaaaaggt gtcttgtgtt   20

<210> 279
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  279
tttactaaaa aaaggcttca                                              20


<210>  280
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  280
actggtctga atgaagtatg                                              20


<210>  281
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  281
cactgccact ggctttagat                                              20


<210>  282
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  282
gttttacagt ttgatttaaa                                              20


<210>  283
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  283
ttcttcatcc agtgccttaa                                              20


<210>  284
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 284
acaggactgg gttctccatg   20

<210> 285
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 285
tgtagttggt gatgattcca   20

<210> 286
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 286
tgtctctgtg tctgtttcag   20

<210> 287
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 287
atgaactgaa gttgcccttc   20

<210> 288
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 288
tttgtgttct taatggtctc   20

<210> 289
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 289
gtcttgtgtt gcttaatcat   20

<210> 290
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 290
ttcggtgggc aatctgcggg   20

<210> 291
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 291
ccggagacac ggcccgcgag   20

<210> 292
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 292
agttccatct ggagtgtttg   20

<210> 293
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 293
agtcatcaaa gttgactctt   20

<210> 294
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 294
agcctttgta ctggccacac   20

<210> 295
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 295
tgcttaatca tacagtttcg   20

<210> 296
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 296
cttcaagggg tgatatttta   20

<210> 297
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 297
ctctttcact ggtctgaatg   20

<210> 298
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 298
atccagtgcc ttaacttttc   20

<210> 299
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 299
tgcttgtgaa cttcttcatc   20

<210> 300
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 300
aacgggtatg agctattcca   20

<210> 301
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 301
ggactgggtt ctccatgtgt   20

<210> 302
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 302
caccgggaaa aggcaggttg   20

<210> 303
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 303
gaagttgccc ttcatgatct   20

<210> 304
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 304
ctcgtctcgt tcgaggaaca   20

<210> 305
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 305
tgttgcccaa cgggtatgag   20

<210> 306
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 306
ttgacaggac tgggttctcc   20

<210> 307
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 307
tatttttatc agagcgctgg   20

<210> 308
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 308
ctggagttcc atctggagtg   20

<210> 309
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  309
tgaagttgcc cttcatgatc                                                    20


<210>  310
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  310
tgaactgaag ttgcccttca                                                    20


<210>  311
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  311
tactggccac accaatctca                                                    20


<210>  312
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  312
tataagtaat ttctttgatt                                                    20


<210>  313
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  313
ttttgtgttc ttaatggtct                                                    20


<210>  314
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  314
cccttcccta actgtccaag                                              20


<210>  315
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  315
gaaaacacaa agtagtagga                                              20


<210>  316
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  316
cacggcccgc gaggccaggg                                              20


<210>  317
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  317
ctttatcatt gcctccatca                                              20


<210>  318
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  318
cgctgggggt ggctattgac                                              20


<210>  319
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  319
gaactgaagt tgcccttcat                                                    20


<210>  320
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  320
aaatgaactg aagttgccct                                                    20


<210>  321
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  321
gtccaggaag tcacttgcta                                                    20


<210>  322
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  322
tggccacacc aatctcagga                                                    20


<210>  323
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  323
atataagtaa tttctttgat                                                    20


<210>  324
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 324
tatcctcctt atcacaaatt   20

<210> 325
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 325
tcatattgtc agttgtccaa   20

<210> 326
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 326
gtgaacttct tcatccagtg   20

<210> 327
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 327
ttgcttgtga acttcttcat   20

<210> 328
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 328
cgggtatgag ctattccaag   20

<210> 329
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 329
tctgctggag ttccatctgg   20

<210> 330
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 330
tctttcactg gtctgaatga   20

<210> 331
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 331
catacactgc cactggcttt   20

<210> 332
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 332
gagcatacac tgccactggc   20

<210> 333
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 333
aaacacaaag tagtaggata   20

<210> 334
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 334
cttcatccag tgccttaact   20

<210> 335
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 335
acacatcata agggcaaaca   20

<210> 336
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 336
cttttttgtgt tcttaatggt   20

<210> 337
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 337
gtgatatttt aaatcaaggt   20

<210> 338
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 338
ggtgatattt taaatcaagg   20

<210> 339
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 339
gggtgatatt ttaaatcaag   20

<210> 340
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 340
atttactaaa aaaaggcttc   20

<210> 341
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 341
atacactgcc actggcttta   20

<210> 342
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 342
tatcctctgt actccagtct   20

<210> 343
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 343
cttgtgaact tcttcatcca   20

<210> 344
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 344
gtctctgtgt ctgtttcaga   20

<210> 345
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 345
tctctccacc aaggtagtaa   20

<210> 346
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 346
accgggaaaa ggcaggttgt   20

<210> 347
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 347
ttttcttcca ccgggaaaag   20

<210> 348
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 348
acgcgattgg tgtgttctat   20

<210> 349
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 349
tagtcatcaa agttgactct   20

<210> 350
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 350
ccaccatcac aggcaactca   20

<210> 351
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 351
tgctagttcc accatcacag   20

<210> 352
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 352
gtgttcttaa tggtctcagt   20

<210> 353
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 353
gatattttaa atcaaggttt   20

<210> 354
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  354
ttactaaaaa aaggcttcaa                                                    20


<210>  355
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  355
aggatttact aaaaaaaggc                                                    20


<210>  356
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  356
gccggagaca cggcccgcga                                                    20


<210>  357
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  357
attcgaagtc atagcctttg                                                    20


<210>  358
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  358
ctgtgtctgt ttcagattcg                                                    20


<210>  359
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 359
tttttcttcc accgggaaaa   20

<210> 360
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 360
gagttccatc tggagtgttt   20

<210> 361
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 361
tggatctcct ttatgtgatc   20

<210> 362
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 362
ctgtccagga agtcacttgc   20

<210> 363
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 363
gcatataagt aatttctttg   20

<210> 364
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  364
tactaaaaaa aggcttcaag                                          20



<210>  365
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  365
ccactggctt tagatactcc                                          20



<210>  366
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  366
atcatattgt cagttgtcca                                          20



<210>  367
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  367
ctttgtagtt ggtgatgatt                                          20



<210>  368
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  368
tgtttcagat tcgaagtcat                                          20



<210>  369
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  369
ttcctttctt gtctttgcct                                          20


<210>  370
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  370
cttcctttct tgtctttgcc                                          20


<210>  371
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  371
catgatctgc tggagttcca                                          20


<210>  372
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  372
agtgcccctt caagacaagt                                          20


<210>  373
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  373
ttttcagtgc cccttcaaga                                          20


<210>  374
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 374
cttggcataa gtgtgatctc   20

<210> 375
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 375
gcttgaattt aaagtttgtg   20

<210> 376
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 376
aaaacacaaa gtagtaggat   20

<210> 377
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 377
tgaaaacaca aagtagtagg   20

<210> 378
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 378
tttatcattg cctccatcaa   20

<210> 379
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  379
tattccaagg tgtacatcaa                                          20


<210>  380
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  380
cagagggcta cctcgccttg                                          20


<210>  381
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  381
ctctggatct cctttatgtg                                          20


<210>  382
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  382
aagcctttgt actggccaca                                          20


<210>  383
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  383
tcagtatcct ccttatcaca                                          20


<210>  384
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  384
aatacaaaag gtgtcttgtg                                              20


<210>  385
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  385
tttaatagca gctctgtgtt                                              20


<210>  386
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  386
tcattatttt tatcagagcg                                              20


<210>  387
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  387
cagattcgaa gtcatagcct                                              20


<210>  388
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  388
gccgtttcaa tccaagcatg                                              20


<210>  389
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 389
tttttgtgtt cttaatggtc   20

<210> 390
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 390
aaatacaaaa ggtgtcttgt   20

<210> 391
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 391
gatttactaa aaaaaggctt   20

<210> 392
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 392
aagttttaca gtttgattta   20

<210> 393
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 393
ttaatagcag ctctgtgttg   20

<210> 394
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  394
atttaatagc agctctgtgt                                              20


<210>  395
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  395
cctttgatta gggtctccag                                              20


<210>  396
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  396
aaggcctttg attagggtct                                              20


<210>  397
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  397
attgtctctg tgtctgtttc                                              20


<210>  398
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  398
gagagagatt gcagcttcct                                              20


<210>  399
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 399
atctccttta tgtgatcctt   20

<210> 400
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 400
gtgccccttc aagacaagta   20

<210> 401
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 401
actgtaaagg gatcacgctg   20

<210> 402
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 402
gcttaatcat acagtttcgt   20

<210> 403
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 403
atattttaaa tcaaggtttt   20

<210> 404
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   404
tgtccaagta tgagcataca                                              20


<210>   405
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   405
agatgaaaac acaaagtagt                                              20


<210>   406
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   406
gggcaatctg cgggctcggg                                              20


<210>   407
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   407
atatttcctt ctgcataaat                                              20


<210>   408
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   408
tttgtactgg ccacaccaat                                              20


<210>   409
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 409
cgttcttttt gtgttcttaa   20

<210> 410
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 410
tattgtcagt tgtccaaagc   20

<210> 411
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 411
ttcatccagt gccttaactt   20

<210> 412
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 412
ttccaaggtg tacatcaaat   20

<210> 413
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 413
attccaaggt gtacatcaaa   20

<210> 414
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 414
gtgtctgttt cagattcgaa   20

<210> 415
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 415
cctttcttgt ctttgcctgt   20

<210> 416
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 416
cgcgattggt gtgttctatg   20

<210> 417
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 417
gctggagttc catctggagt   20

<210> 418
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 418
cttcatgatc tgctggagtt   20

<210> 419
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  419
actgaagttg cccttcatga                                                    20


<210>  420
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  420
cagtgcccct tcaagacaag                                                    20


<210>  421
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  421
tctttttgtg ttcttaatgg                                                    20


<210>  422
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  422
tgatatttta aatcaaggtt                                                    20


<210>  423
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  423
tactctttca ctggtctgaa                                                    20


<210>  424
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 424
cagcttgaat ttaaagtttg   20

<210> 425
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 425
ctctcattgt gttcacgaca   20

<210> 426
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 426
ttgctagttc caccatcaca   20

<210> 427
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 427
accacaggcc gcccctgccg   20

<210> 428
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 428
tattttaaat caaggtttta   20

<210> 429
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 429
acaaattact gggaaaatgt   20

<210> 430
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 430
gatgaaaaca caaagtagta   20

<210> 431
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 431
tcagattcga agtcatagcc   20

<210> 432
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 432
aactctctcc accaaggtag   20

<210> 433
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 433
agggctacct cgccttgtgc   20

<210> 434
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 434
gagagattgc agcttccttt   20

<210> 435
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 435
tcatgatctg ctggagttcc   20

<210> 436
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 436
taaatgaact gaagttgccc   20

<210> 437
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 437
atagtcatca aagttgactc   20

<210> 438
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 438
tgatcgttct ttttgtgttc   20

<210> 439
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  439
ctgtaaaggg atcacgctga                                      20


<210>  440
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  440
gattagggtc tccaggattt                                      20


<210>  441
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  441
atcctctgta ctccagtctc                                      20


<210>  442
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  442
ccagtgcctt aacttttcct                                      20


<210>  443
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  443
ccaacgggta tgagctattc                                      20


<210>  444
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 444
gttctccatg tgttgcccaa   20

<210> 445
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 445
tctgtgtctg tttcagattc   20

<210> 446
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 446
tcttgacttt cccgattgtc   20

<210> 447
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 447
agagagattg cagcttcctt   20

<210> 448
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 448
cgtccggggt gatctcctgc   20

<210> 449
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  449
tagttccacc atcacaggca                                              20


<210>  450
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  450
tgtccaggaa gtcacttgct                                              20


<210>  451
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  451
ccccttcaag acaagtagca                                              20


<210>  452
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  452
ttggcataag tgtgatctct                                              20


<210>  453
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  453
taccacaggc cgcccctgcc                                              20


<210>  454
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 454
ggtctgaatg aagtatggtg   20

<210> 455
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 455
atcaatatta atttaatagc   20

<210> 456
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 456
tgccggagac acggcccgcg   20

<210> 457
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 457
cttgttgctt gtgaacttct   20

<210> 458
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 458
ttcattattt ttatcagagc   20

<210> 459
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  459
aaagacgtcc atccactact                                              20


<210>  460
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  460
ggttttaaat acaaaaggtg                                              20


<210>  461
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  461
aggttttaaa tacaaaaggt                                              20


<210>  462
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  462
ctactctttc actggtctga                                              20


<210>  463
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  463
actgccactg gctttagata                                              20


<210>  464
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 464
ttttacagtt tgatttaaaa   20

<210> 465
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 465
gtctccagga tttctcgtct   20

<210> 466
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 466
aggactgggt tctccatgtg   20

<210> 467
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 467
taactctctc caccaaggta   20

<210> 468
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 468
ccggggtgat ctcctgcagt   20

<210> 469
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 469
aagttgccct tcatgatctg   20

<210> 470
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 470
atttccttct gcataaatga   20

<210> 471
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 471
tgatagcctc gtcccattat   20

<210> 472
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 472
atgatagcct cgtcccatta   `   20

<210> 473
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 473
catataagta atttctttga   20

<210> 474
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 474
acaaaaatca catattgagt   20

<210> 475
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 475
gcatacactg ccactggctt   20

<210> 476
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 476
taagttttac agtttgattt   20

<210> 477
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 477
agcagcttga atttaaagtt   20

<210> 478
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 478
tagtaggata cccaacatgt   20

<210> 479
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  479
ccaggatttc tcgtctcgtt                                                    20


<210>  480
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  480
ctttgattag ggtctccagg                                                    20


<210>  481
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  481
atatcctctg tactccagtc                                                    20


<210>  482
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  482
cactgctttt tcttccaccg                                                    20


<210>  483
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  483
atctctggat ctcctttatg                                                    20


<210>  484
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 484
ctgtgtttgt gatccccaca   20

<210> 485
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 485
taagcctttg tactggccac   20

<210> 486
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 486
cacatcataa gggcaaacat   20

<210> 487
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 487
cccttcaaga caagtagcat   20

<210> 488
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 488
caaattactg ggaaaatgta   20

<210> 489
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  489
caggatttct cgtctcgttc                                                      20


<210>  490
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  490
tctttgtagt tggtgatgat                                                      20


<210>  491
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  491
actttcccga ttgtcataca                                                      20


<210>  492
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  492
cttgactttc ccgattgtca                                                      20


<210>  493
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  493
gaaagacgtc catccactac                                                      20


<210>  494
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 494
gtccggggtg atctcctgca   20

<210> 495
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 495
tatagtcatc aaagttgact   20

<210> 496
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 496
tgtgtttctg tccaggaagt   20

<210> 497
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 497
ggccacacca atctcaggac   20

<210> 498
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 498
acttggcata agtgtgatct   20

<210> 499
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 499
atcctcctta tcacaaatta   20

<210> 500
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 500
gttcttttg tgttcttaat   20

<210> 501
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 501
caactgtaaa gggatcacgc   20

<210> 502
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 502
gcaactgtaa agggatcacg   20

<210> 503
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 503
gtgttgctta atcatacagt   20

<210> 504
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 504
caaaaatcac atattgagtg   20

<210> 505
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 505
cactggcttt agatactcca   20

<210> 506
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 506
atgaaaacac aaagtagtag   20

<210> 507
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 507
tctgcgggct cggggggccgg   20

<210> 508
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 508
aatctgcggg ctcggggggcc   20

<210> 509
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 509
tcgtctcgtt cgaggaacat   20

<210> 510
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 510
gcctttgatt agggtctcca   20

<210> 511
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 511
tgcctccatc aaatcccaca   20

<210> 512
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 512
tccaaggtgt acatcaaatt   20

<210> 513
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 513
agctattcca aggtgtacat   20

<210> 514
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 514
cccaacgggt atgagctatt   20

<210> 515
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 515
ccactgcttt ttcttccacc   20

<210> 516
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 516
tcaaatattt ccttctgcat   20

<210> 517
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 517
actggccaca ccaatctcag   20

<210> 518
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 518
ataagccttt gtactggcca   20

<210> 519
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 519
agatccgatc atcacacatc   20

<210> 520
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 520
gatagcctcg tcccattatc   20

<210> 521
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 521
ttgtgttgct taatcataca   20

<210> 522
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 522
ctccaggatt tctcgtctcg   20

<210> 523
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 523
ggtctccagg atttctcgtc   20

<210> 524
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 524
tttgattagg gtctccagga   20

<210> 525
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 525
tcatccagtg ccttaacttt   20

<210> 526
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 526
gattccattg tgaataacga   20

<210> 527
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 527
tgtgtctgtt tcagattcga   20

<210> 528
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 528
ccaccaaggt agtaaagctg   20

<210> 529
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 529
ctctccacca aggtagtaaa   20

<210> 530
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 530
gctacctcgc cttgtgccaa   20

<210> 531
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 531
gcgattggtg tgttctatga   20

<210> 532
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 532
aatgatagcc tcgtcccatt   20

<210> 533
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 533
gtgtgatctc tcatgatgat   20

<210> 534
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  534
agtgtgatct ctcatgatga                                           20


<210>  535
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  535
gttttaaata caaaaggtgt                                           20


<210>  536
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  536
attttaaatc aaggttttaa                                           20


<210>  537
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  537
cactggtctg aatgaagtat                                           20


<210>  538
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  538
tgagcataca ctgccactgg                                           20


<210>  539
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 539
tccaagtatg agcatacact   20

<210> 540
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 540
caaagtagta ggatacccaa   20

<210> 541
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 541
aacacaaagt agtaggatac   20

<210> 542
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 542
tgattagggt ctccaggatt   20

<210> 543
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 543
ttgattaggg tctccaggat   20

<210> 544
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 544
tcatatcctc tgtactccag   20

<210> 545
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 545
ttgcctccat caaatcccac   20

<210> 546
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 546
gagctattcc aaggtgtaca   20

<210> 547
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 547
gggtggctat tgacaggact   20

<210> 548
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 548
tgatgattcc attgtgaata   20

<210> 549
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 549
tcatagcctt tgctttccaa   20

<210> 550
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 550
tccaccaagg tagtaaagct   20

<210> 551
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 551
ctctctccac caaggtagta   20

<210> 552
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 552
ggggtgatct cctgcagttc   20

<210> 553
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 553
tccttctgca taaatgaact   20

<210> 554
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 554
tcatgatcac aggcatcaat   20

<210> 555
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 555
atcatgatca caggcatcaa   20

<210> 556
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 556
gatcatgatc acaggcatca   20

<210> 557
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 557
cttgtgttgc ttaatcatac   20

<210> 558
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 558
acccttccct aactgtccaa   20

<210> 559
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 559
ggggtggcgc cgacacgact   20

<210> 560
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 560
tgggcaatct gcgggctcgg   20

<210> 561
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 561
tttgtagttg gtgatgattc   20

<210> 562
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 562
atcttgactt tcccgattgt   20

<210> 563
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 563
ataactctct ccaccaaggt   20

<210> 564
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 564
ttgcccttca tgatctgctg   20

<210> 565
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 565
ttccttctgc ataaatgaac   20

<210> 566
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 566
ttaaatacaa aaggtgtctt   20

<210> 567
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 567
tttaaataca aaaggtgtct   20

<210> 568
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 568
gccactggct ttagatactc   20

<210> 569
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 569
cgaggccagg ggcgagtggc   20

<210> 570
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 570
atgccggaga cacggcccgc   20

<210> 571
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 571
acgggtatga gctattccaa   20

<210> 572
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 572
gctgggggtg gctattgaca   20

<210> 573
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 573
gtttcagatt cgaagtcata   20

<210> 574
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 574
cttttctttc caccgggaaa   20

<210> 575
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 575
cggggtgatc tcctgcagtt   20

<210> 576
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 576
ttccatctgg agtgtttgca   20

<210> 577
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 577
tttccttctg cataaatgaa   20

<210> 578
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 578
ctcaaatatt tccttctgca   20

<210> 579
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 579
accatcacag gcaactcagt 20

<210> 580
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 580
gtgtgtttct gtccaggaag 20

<210> 581
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 581
ctttgtactg gccacaccaa 20

<210> 582
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 582
tcctccttat cacaaattac 20

<210> 583
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 583
taaatacaaa aggtgtcttg 20

<210> 584
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 584
gtccaagtat gagcatacac   20

<210> 585
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 585
tttacagttt gatttaaaaa   20

<210> 586
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 586
tcaatattaa tttaatagca   20

<210> 587
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 587
ccggggtggc gccgacacga   20

<210> 588
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 588
tccaggattt ctcgtctcgt   20

<210> 589
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 589
tctccaggat ttctcgtctc   20

<210> 590
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 590
tcttcatcca gtgccttaac   20

<210> 591
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 591
gattcgaagt catagccttt   20

<210> 592
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 592
tctgtccagg aagtcacttg   20

<210> 593
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 593
catgatcaca ggcatcaatt   20

<210> 594
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 594
atcgttcttt ttgtgttctt   20

<210> 595
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 595
aagtagtagg atacccaaca   20

<210> 596
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 596
agggtctcca ggatttctcg   20

<210> 597
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 597
cagaatcata tcctctgtac   20

<210> 598
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 598
tccagtgcct taactttttcc   20

<210> 599
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  599
attccattgt gaataacgat                                                    20


<210>  600
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  600
tcctttcttg tctttgcctg                                                    20


<210>  601
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  601
gctttttctt ccaccgggaa                                                    20


<210>  602
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  602
aagacgtcca tccactactg                                                    20


<210>  603
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  603
ccggcatctc tggatctcct                                                    20


<210>  604
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  604
agttccacca tcacaggcaa                                           20


<210>  605
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  605
tataagcctt tgtactggcc                                           20


<210>  606
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  606
gccagcaact gtaaagggat                                           20


<210>  607
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  607
agccagcaac tgtaaaggga                                           20


<210>  608
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  608
tcttgtgttg cttaatcata                                           20


<210>  609
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 609
acaaaaggtg tcttgtgttg   20

<210> 610
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 610
aaagtagtag gatacccaac   20

<210> 611
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 611
agtgccttaa cttttccttt   20

<210> 612
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 612
gctattccaa ggtgtacatc   20

<210> 613
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 613
ggggtggcta ttgacaggac   20

<210> 614
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 614
gacgcgattg gtgtgttcta   20

<210> 615
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 615
tatttccttc tgcataaatg   20

<210> 616
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 616
aatatttcct tctgcataaa   20

<210> 617
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 617
caaatatttc cttctgcata   20

<210> 618
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 618
aagtgtgatc tctcatgatg   20

<210> 619
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  619
tgcactactc tttcactggt                                               20


<210>  620
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  620
ttaagtttta cagtttgatt                                               20


<210>  621
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  621
caccagcaga atcatatcct                                               20


<210>  622
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  622
attgacagga ctgggttctc                                               20


<210>  623
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  623
agagattgca gcttcctttc                                               20


<210>  624
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 624
cgagagagat tgcagcttcc   20

<210> 625
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 625
ggtgatctcc tgcagttcgt   20

<210> 626
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 626
tctctggatc tcctttatgt   20

<210> 627
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 627
tcctccacaa attactggga   20

<210> 628
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 628
gcagcttgaa tttaaagttt   20

<210> 629
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 629
agtaggatac ccaacatgta   20

<210> 630
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 630
cgtctcgttc gaggaacatg   20

<210> 631
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 631
cagtgcctta acttttcctt   20

<210> 632
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 632
ttccattgtg aataacgata   20

<210> 633
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 633
gtctttgtag ttggtgatga   20

<210> 634
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 634
gctcgtccgg ggtgatctcc 20

<210> 635
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 635
ctgaagttgc ccttcatgat 20

<210> 636
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 636
catctctgga tctcctttat 20

<210> 637
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 637
tgtgtttgtg atccccacag 20

<210> 638
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 638
aggcagccgt ttcaatccaa 20

<210> 639
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 639
tttcagtgcc ccttcaagac   20

<210> 640
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 640
cctccttatc acaaattacc   20

<210> 641
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 641
cagtatcctc cttatcacaa   20

<210> 642
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 642
ttgaatttaa agtttgtgct   20

<210> 643
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 643
agtagtagga tacccaacat   20

<210> 644
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 644
ctgaaggcct ttgattaggg   20

<210> 645
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 645
tcctctgtac tccagtctct   20

<210> 646
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 646
agaatcatat cctctgtact   20

<210> 647
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 647
tctttatcat tgcctccatc   20

<210> 648
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 648
gggtgatctc ctgcagttcg   20

<210> 649
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 649
tctcctttat gtgatccttc   20

<210> 650
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 650
ccaactgtgt ttgtgatccc   20

<210> 651
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 651
tgtgttgctt aatcatacag   20

<210> 652
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 652
cacaaattac tgggaaaatg   20

<210> 653
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 653
tttaaagttt gtgctataaa   20

<210> 654
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 654
aagcagcttg aatttaaagt   20

<210> 655
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 655
agacacggcc cgcgaggcca   20

<210> 656
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 656
accagcagaa tcatatcctc   20

<210> 657
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 657
ttatcattgc ctccatcaaa   20

<210> 658
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 658
cctcgccttg tgccaactgc   20

<210> 659
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 659
ctttcttgtc tttgcctgtt   20

<210> 660
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 660
tccttatcac aaattaccac   20

<210> 661
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 661
ttttaaatac aaaaggtgtc   20

<210> 662
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 662
cctccacaaa ttactgggaa   20

<210> 663
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 663
gtggcgccga cacgactccc   20

<210> 664
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 664
gtgcacacac gagcttcggt   20

<210> 665
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 665
catatcctct gtactccagt   20

<210> 666
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 666
tcttgttgct tgtgaacttc   20

<210> 667
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 667
ttgtagttgg tgatgattcc   20

<210> 668
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 668
gccaactgtg tttgtgatcc   20

<210> 669
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  669
cgtttcaatc caagcatgat                                              20


<210>  670
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  670
caggcagccg tttcaatcca                                              20


<210>  671
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  671
ttcagagtgc atataagtaa                                              20


<210>  672
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  672
tctcagattg aagtggaggg                                              20


<210>  673
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  673
ggatagaaag acgtccatcc                                              20


<210>  674
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 674
ctcgtccggg gtgatctcct   20

<210> 675
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 675
ccgtttcaat ccaagcatga   20

<210> 676
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 676
ctgacttctg atgataaagt   20

<210> 677
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 677
tcagagtgca tataagtaat   20

<210> 678
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 678
cttcagagtg catataagta   20

<210> 679
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  679
actggcttta gatactccaa                                                20


<210>  680
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  680
atgagcatac actgccactg                                                20


<210>  681
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  681
gtatgagcat acactgccac                                                20


<210>  682
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  682
gttttaagtt ttacagtttg                                                20


<210>  683
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  683
agttttaagt tttacagttt                                                20


<210>  684
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 684
tgaatttaaa gtttgtgcta   20

<210> 685
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 685
tggcgccgac acgactccct   20

<210> 686
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 686
gtctctgaag gcctttgatt   20

<210> 687
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 687
attcattatt tttatcagag   20

<210> 688
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 688
atactccact gctttttctt   20

<210> 689
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 689
atcacaggca tcaatttatc   20

<210> 690
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 690
agcatacact gccactggct   20

<210> 691
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 691
aagtttgtgc tataaaattg   20

<210> 692
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 692
gtctcgttcg aggaacatgg   20

<210> 693
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 693
attgcctcca tcaaatccca   20

<210> 694
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 694
gcccaacggg tatgagctat   20

<210> 695
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 695
atgtgttgcc caacgggtat   20

<210> 696
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 696
ggctattgac aggactgggt   20

<210> 697
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 697
aattgtctct gtgtctgttt   20

<210> 698
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 698
gcttcctttc ttgtctttgc   20

<210> 699
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 699
actgtgtttg tgatccccac   20

<210> 700
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 700
gcagccgttt caatccaagc   20

<210> 701
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 701
tgatcatgat cacaggcatc   20

<210> 702
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 702
tgtgttctta atggtctcag   20

<210> 703
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 703
agcaactgta aagggatcac   20

<210> 704
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  704
ataatagcta gaatctttct                                          20


<210>  705
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  705
aacatattgt cttctcagat                                          20


<210>  706
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  706
agtaccaatt tttagaaaca                                          20


<210>  707
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  707
ctggctttag atactccaat                                          20


<210>  708
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  708
tatgagcata cactgccact                                          20


<210>  709
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 709
aaagtttgtg ctataaaatt   20

<210> 710
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 710
gtgccttaac ttttcctttc   20

<210> 711
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 711
cagagcgctg ggggtggcta   20

<210> 712
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 712
gctggtatct tgactttccc   20

<210> 713
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 713
gtgtttgtga tccccacagt   20

<210> 714
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 714
tatgaactcc acaatctgtc   20

<210> 715
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 715
tcataagggc aaacatcaca   20

<210> 716
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 716
actgacttct gatgataaag   20

<210> 717
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 717
cagagtgcat ataagtaatt   20

<210> 718
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 718
cacttggcat aagtgtgatc   20

<210> 719
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 719
tttaaatcaa ggttttaaat   20

<210> 720
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 720
ttttaaatca aggttttaaa   20

<210> 721
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 721
tcactggtct gaatgaagta   20

<210> 722
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 722
tttcttccac ctacagataa   20

<210> 723
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 723
acacaaagta gtaggatacc   20

<210> 724
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 724
gagatgaaaa cacaaagtag   20

<210> 725
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 725
tctctgaagg cctttgatta   20

<210> 726
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 726
gcagaatcat atcctctgta   20

<210> 727
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 727
catgtgttgc ccaacgggta   20

<210> 728
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 728
tccattgtga ataacgataa   20

<210> 729
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 729
ttgactttcc cgattgtcat   20

<210> 730
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 730
cttccagaaa gatgacgcga   20

<210> 731
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 731
gatagaaaga cgtccatcca   20

<210> 732
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 732
gatcacaggc atcaatttat   20

<210> 733
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 733
gatgatcatg atcacaggca   20

<210> 734
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 734
taagtgtgat ctctcatgat   20

<210> 735
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 735
ataagtgtga tctctcatga   20

<210> 736
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 736
tggcataagt gtgatctctc   20

<210> 737
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 737
ctcagattga agtggagggt   20

<210> 738
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 738
tttaagtttt acagtttgat   20

<210> 739
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   739
ttcttccacc tacagataat                                                    20


<210>   740
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   740
cacaaagtag taggataccc                                                    20


<210>   741
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   741
attaatttaa tagcagctct                                                    20


<210>   742
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   742
tctgaaggcc tttgattagg                                                    20


<210>   743
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   743
ctctgaaggc ctttgattag                                                    20


<210>   744
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

```
<400>  744
ctggtatctt gactttcccg                                                    20


<210>  745
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  745
gactggtgtg tttctgtcca                                                    20


<210>  746
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  746
gagatccgat catcacacat                                                    20


<210>  747
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  747
tgtgatctct catgatgatc                                                    20


<210>  748
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  748
aactgtaaag ggatcacgct                                                    20


<210>  749
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  749
ttcagtttta agttttacag                                            20


<210>  750
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  750
ttaaagtttg tgctataaaa                                            20


<210>  751
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  751
ccaggggcga gtggctggcg                                            20


<210>  752
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  752
catggtagtt taagtaagca                                            20


<210>  753
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  753
gcctccatca aatcccacac                                            20


<210>  754
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 754
cattgcctcc atcaaatccc   20

<210> 755
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 755
atgagctatt ccaaggtgta   20

<210> 756
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 756
tatgagctat tccaaggtgt   20

<210> 757
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 757
gatgattcca ttgtgaataa   20

<210> 758
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 758
gtgatctcct gcagttcgtt   20

<210> 759
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 759
gccggcatct ctggatctcc   20

<210> 760
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 760
tccaccatca caggcaactc   20

<210> 761
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 761
gttgctagtt tctgaatttc   20

<210> 762
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 762
tcacaggcat caatttatcc   20

<210> 763
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 763
aagccagcaa ctgtaaaggg   20

<210> 764
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 764
atgcactact ctttcactgg   20

<210> 765
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 765
taaagtttgt gctataaaat   20

<210> 766
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 766
aatcatattg tcagttgtcc   20

<210> 767
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 767
caggggcgag tggctggcgg   20

<210> 768
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 768
gcaaatatac cacacatgat   20

<210> 769
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 769
agcaaatata ccacacatga   20

<210> 770
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 770
gaaggccttt gattagggtc   20

<210> 771
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 771
tgagctattc caaggtgtac   20

<210> 772
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 772
caggactggg ttctccatgt   20

<210> 773
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 773
gagattgcag cttcctttct   20

<210> 774
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 774
aactgaagtt gcccttcatg   20

<210> 775
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 775
cacagtatag tcatcaaagt   20

<210> 776
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 776
ttccaccatc acaggcaact   20

<210> 777
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 777
atatgaactc cacaatctgt   20

<210> 778
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 778
tcatacagtt tcgtacattt   20

<210> 779
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 779
gtctgaatga agtatggtga   20

<210> 780
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 780
actactcttt cactggtctg   20

<210> 781
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 781
gcactactct ttcactggtc   20

<210> 782
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 782
aattcattat ttttatcaga   20

<210> 783
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 783
gcttggcaat tgtctctgtg   20

<210> 784
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 784
caccaaggta gtaaagctgg   20

<210> 785
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 785
actctctcca ccaaggtagt   20

<210> 786
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 786
ccgggaaaag gcaggttgtg   20

<210> 787
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 787
cgattggtgt gttctatgac   20

<210> 788
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 788
agacgtccat ccactactgc   20

<210> 789
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 789
tagaaagacg tccatccact   20

<210> 790
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 790
atagaaagac gtccatccac   20

<210> 791
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 791
aaatatttcc ttctgcataa   20

<210> 792
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 792
ggagatccga tcatcacaca   20

<210> 793
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 793
atcatacagt ttcgtacatt   20

<210> 794
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 794
ccacaaatta ctgggaaaat   20

<210> 795
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 795
cttgaattta aagtttgtgc   20

<210> 796
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 796
gtttaagtaa gcaaatatac   20

<210> 797
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 797
ctgggttctc catgtgttgc   20

<210> 798
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 798
actgggttct ccatgtgttg   20

<210> 799
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 799
ccattgtgaa taacgataaa 20

<210> 800
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 800
caagtctttg tagttggtga 20

<210> 801
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 801
ctctgtgtct gtttcagatt 20

<210> 802
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 802
ggtagtaaag ctggtatctt 20

<210> 803
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 803
aatactccac tgcttttttct 20

<210> 804
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 804
tccggggtga tctcctgcag   20

<210> 805
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 805
gtatagtcat caaagttgac   20

<210> 806
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 806
gccacaccaa tctcaggacc   20

<210> 807
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 807
tgcatataag taatttcttt   20

<210> 808
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 808
aaggatgcct tcagagtgca   20

<210> 809
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 809
aggcatcaat ttatccacca   20

<210> 810
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 810
ttgatcgttc tttttgtgtt   20

<210> 811
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 811
acatattgtc ttctcagatt   20

<210> 812
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 812
cactactctt tcactggtct   20

<210> 813
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 813
ttacagtttg atttaaaaac   20

<210> 814
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400>   814
atatcaatat taatttaata   20

<210>   815
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   815
gagacacggc ccgcgaggcc   20

<210>   816
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   816
catagccttt gctttccaaa   20

<210>   817
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   817
aggtagtaaa gctggtatct   20

<210>   818
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   818
gataactctc tccaccaagg   20

<210>   819
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400> 819
atctcctgca gttcgtttaa   20

<210> 820
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 820
atcataaggg caaacatcac   20

<210> 821
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 821
ggcatcaatt tatccaccaa   20

<210> 822
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 822
atgatcatga tcacaggcat   20

<210> 823
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 823
catattgtct tctcagattg   20

<210> 824
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 824
tggctttaga tactccaatt   20

<210> 825
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 825
ccctaactgt ccaagtatga   20

<210> 826
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 826
ttttaagttt tacagtttga   20

<210> 827
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 827
tatcaatatt aatttaatag   20

<210> 828
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 828
atctgcgggc tcgggggccg   20

<210> 829
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 829
cttcggtggg caatctgcgg   20

<210> 830
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 830
gacacggccc gcgaggccag   20

<210> 831
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 831
cacatgatgc cggagacacg   20

<210> 832
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 832
acatggtagt ttaagtaagc   20

<210> 833
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 833
attagggtct ccaggatttc   20

<210> 834
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 834
ctgggggtgg ctattgacag   20

<210> 835
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 835
tcttccagaa agatgacgcg   20

<210> 836
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 836
ttctgtccag gaagtcactt   20

<210> 837
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 837
aactgtgttt gtgatcccca   20

<210> 838
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 838
ttcagtgccc cttcaagaca   20

<210> 839
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 839
ccttcagagt gcatataagt   20

<210> 840
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 840
tgatgatcat gatcacaggc   20

<210> 841
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 841
ttgtgttctt aatggtctca   20

<210> 842
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 842
tcgttctttt tgtgttctta   20

<210> 843
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 843
ttaaatcaag gttttaaata   20

<210> 844
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 844
cacatattga gtggaataat   20

<210> 845
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 845
cacaaaaatc acatattgag   20

<210> 846
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 846
ccaattaaat gcactactct   20

<210> 847
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 847
agtatgagca tacactgcca   20

<210> 848
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 848
agatacaagg aaataaaaaa   20

<210> 849
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 849
atctttatca ttgcctccat   20

<210> 850
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 850
atcttgttgc ttgtgaactt   20

<210> 851
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 851
agcttggcaa ttgtctctgt   20

<210> 852
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 852
tgacgcgatt ggtgtgttct   20

<210> 853
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 853
tctcattgtg ttcacgacag   20

<210> 854
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 854
gcatctctgg atctccttta   20

<210> 855
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 855
cggcatctct ggatctcctt   20

<210> 856
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 856
ttgttccaca agcaataaga   20

<210> 857
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 857
ttcaagacaa gtagcataat   20

<210> 858
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 858
tgatcacagg catcaattta   20

<210> 859
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 859
acatattgag tggaataatt   20

<210> 860
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 860
acttcacaaa aatcacatat   20

<210> 861
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 861
gtcctccaca aattactggg   20

<210> 862
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 862
acaaggaaat aaaaaacact   20

<210> 863
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 863
gaggccaggg gcgagtggct   20

<210> 864
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 864
gaatcatatc ctctgtactc 20

<210> 865
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 865
caattgtctc tgtgtctgtt 20

<210> 866
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 866
tgactttccc gattgtcata 20

<210> 867
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 867
ctcgccttgt gccaactgct 20

<210> 868
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 868
acctcgcctt gtgccaactg 20

<210> 869
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 869
ctccactgct ttttcttcca   20

<210> 870
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 870
gtaatactcc actgcttttt   20

<210> 871
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 871
tccagaaaga tgacgcgatt   20

<210> 872
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 872
ttccagaaag atgacgcgat   20

<210> 873
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 873
gacgtccatc cactactgct   20

<210> 874
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 874
tctcctgcag ttcgtttaat   20

<210> 875
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 875
gatctcctgc agttcgttta   20

<210> 876
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 876
acagtatagt catcaaagtt   20

<210> 877
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 877
acatcataag ggcaaacatc   20

<210> 878
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 878
ggcagccgtt tcaatccaag   20

<210> 879
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 879
tcaggcagcc gtttcaatcc   20

<210> 880
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 880
ccttcaagac aagtagcata   20

<210> 881
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 881
atctctcatg atgatcatga   20

<210> 882
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 882
ggctttagat actccaatta   20

<210> 883
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 883
gtaggatacc caacatgtac   20

<210> 884
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 884
caaggaaata aaaaacactt   20

<210> 885
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 885
tggctattga caggactggg   20

<210> 886
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 886
gtggctattg acaggactgg   20

<210> 887
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 887
agtaatactc cactgctttt   20

<210> 888
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 888
ttcacagtat agtcatcaaa   20

<210> 889
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 889
accacccaaa ttcacagtat   20

<210> 890
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 890
ctcctttatg tgatccttca   20

<210> 891
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 891
tggtgtgttt ctgtccagga   20

<210> 892
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 892
cataagggca aacatcacaa   20

<210> 893
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 893
agagtgcata taagtaattt   20

<210> 894
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   894
tttggcaaga ttccgtggga                                                    20


<210>   895
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   895
tccattattc aaagtcctcc                                                    20


<210>   896
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   896
ttcactggtc tgaatgaagt                                                    20


<210>   897
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   897
ctgccactgg ctttagatac                                                    20


<210>   898
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   898
cctaccaata aaatttttca                                                    20


<210>   899
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 899
gggtggcgcc gacacgactc   20

<210> 900
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 900
caatctgcgg gctcgggggc   20

<210> 901
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 901
gatgccggag acacggcccg   20

<210> 902
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 902
aagtaagcaa atataccaca   20

<210> 903
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 903
cttaactttt cctttcttct   20

<210> 904
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 904
tattgacagg actgggttct   20

<210> 905
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 905
acgataaatt cattattttt   20

<210> 906
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 906
ccaattgttg gataactctc   20

<210> 907
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 907
agcaccttcc aattgttgga   20

<210> 908
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 908
gtgccaactg cttgcccggg   20

<210> 909
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 909
ctacctcgcc ttgtgccaac   20

<210> 910
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 910
acagagggct acctcgcctt   20

<210> 911
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 911
tttcttgtct ttgcctgttc   20

<210> 912
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 912
gcaaagtaat actccactgc   20

<210> 913
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 913
gaagcaaagt aatactccac   20

<210> 914
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 914
ttcatgatct gctggagttc   20

<210> 915
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 915
tcacagtata gtcatcaaag   20

<210> 916
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 916
ggcatctctg gatctccttt   20

<210> 917
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 917
aatcaaacgc cggcatctct   20

<210> 918
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 918
caactgtgtt tgtgatcccc   20

<210> 919
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 919
tggagatccg atcatcacac 20

<210> 920
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 920
tgcatggaga tccgatcatc 20

<210> 921
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 921
tttcaattca ccagcaagga 20

<210> 922
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 922
tcagattgaa gtggagggtc 20

<210> 923
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 923
acaaagtagt aggataccca 20

<210> 924
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 924
cgggggtgca cacacgagct   20

<210> 925
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 925
aggggcgagt ggctggcggg   20

<210> 926
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 926
atgattccat tgtgaataac   20

<210> 927
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 927
aagtctttgt agttggtgat   20

<210> 928
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 928
tatcttgact ttcccgattg   20

<210> 929
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 929
tcgtccgggg tgatctcctg   20

<210> 930
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 930
ataaatgaac tgaagttgcc   20

<210> 931
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 931
attcacagta tagtcatcaa   20

<210> 932
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 932
attaatatga actccacaat   20

<210> 933
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 933
ttgctagttt ctgaatttcg   20

<210> 934
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 934
aggatgcctt cagagtgcat   20

<210> 935
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 935
gatcgttctt tttgtgttct   20

<210> 936
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 936
ccttgatcgt tctttttgtg   20

<210> 937
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 937
aatcatacag tttcgtacat   20

<210> 938
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 938
tcacaaaaat cacatattga   20

<210> 939
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 939
aaattactgg gaaaatgtaa   20

<210> 940
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 940
gtaccaattt ttagaaacat   20

<210> 941
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 941
caagtaccaa tttttagaaa   20

<210> 942
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 942
acaagtacca attttttagaa   20

<210> 943
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 943
tattaattta atagcagctc   20

<210> 944
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 944
aatataccac acatgatgcc   20

<210> 945
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 945
attatttta tcagagcgct   20

<210> 946
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 946
cattatttt atcagagcgc   20

<210> 947
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 947
ttcaagtctt tgtagttggt   20

<210> 948
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 948
gcaccttcca attgttggat   20

<210> 949
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 949
gcaaaagcac cttccaattg   20

<210> 950
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 950
tacctcgcct tgtgccaact   20

<210> 951
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 951
caacagaggg ctacctcgcc   20

<210> 952
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 952
agaagcaaag taatactcca   20

<210> 953
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 953
cagaagcaaa gtaatactcc   20

<210> 954
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 954
ccagaaagat gacgcgattg   20

<210> 955
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 955
tagtttctga atttcgtcat   20

<210> 956
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 956
tgacttctga tgataaagtt   20

<210> 957
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 957
aactgacttc tgatgataaa   20

<210> 958
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 958
caccagcaag gatgccttca   20

<210> 959
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 959
tctctcatga tgatcatgat   20

<210> 960
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 960
gtttcgtaca ttttgtatag   20

<210> 961
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 961
agtttcgtac attttgtata   20

<210> 962
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 962
aaggttttaa atacaaaagg   20

<210> 963
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 963
catattgagt ggaataatta   20

<210> 964
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  964
atattgtctt ctcagattga                                              20


<210>  965
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  965
caattaaatg cactactctt                                              20


<210>  966
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  966
tcctaccaat aaaatttttc                                              20


<210>  967
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  967
tttcgcttcc taaatttctt                                              20


<210>  968
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  968
gaatttaaag tttgtgctat                                              20


<210>  969
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 969
gtgggcaatc tgcgggctcg   20

.

<210> 970
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 970
ggtggctatt gacaggactg   20

<210> 971
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 971
tgggggtggc tattgacagg   20

<210> 972
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 972
tcaagtcttt gtagttggtg   20

<210> 973
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 973
agattcgaag tcatagcctt   20

<210> 974
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 974
caattgttgg ataactctct   20

<210> 975
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 975
gaatcaaacg ccggcatctc   20

<210> 976
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 976
gcaactcagt cagctcctca   20

<210> 977
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 977
ccatcacagg caactcagtc   20

<210> 978
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 978
caccatcaca ggcaactcag   20

<210> 979
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 979
tttctgtcca ggaagtcact   20

<210> 980
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 980
gtgtttctgt ccaggaagtc   20

<210> 981
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 981
ttgcatggag atccgatcat   20

<210> 982
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 982
tgccccttca agacaagtag   20

<210> 983
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 983
acacttggca taagtgtgat   20

<210> 984
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 984
gacacttggc ataagtgtga 20

<210> 985
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 985
aaaatcacat attgagtgga 20

<210> 986
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 986
ctttcactgg tctgaatgaa 20

<210> 987
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 987
atttcgcttc ctaaatttct 20

<210> 988
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 988
ttttaggaga tgaaaacaca 20

<210> 989
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 989
gggggtgcac acacgagctt   20

<210> 990
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 990
atataccaca catgatgccg   20

<210> 991
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 991
aagcaccttc caattgttgg   20

<210> 992
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 992
tccactgctt tttcttccac   20

<210> 993
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 993
ctgcataaat gaactgaagt   20

<210> 994
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 994
agtatagtca tcaaagttga 20

<210> 995
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 995
ccacccaaat tcacagtata 20

<210> 996
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 996
cacaggcaac tcagtcagct 20

<210> 997
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 997
atgaactcca caatctgtct 20

<210> 998
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 998
ttaatatgaa ctccacaatc 20

<210> 999
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 999
taatcataca gtttcgtaca 20

<210> 1000
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1000
aacttcacaa aaatcacata 20

<210> 1001
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1001
taacttcaca aaaatcacat 20

<210> 1002
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1002
tccctaactg tccaagtatg 20

<210> 1003
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1003
ccaaagcagc ttgaatttaa 20

<210> 1004
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1004
aagcaaatat accacacatg   20

<210> 1005
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1005
agtctctgaa ggcctttgat   20

<210> 1006
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1006
cgataaattc attatttta   20

<210> 1007
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1007
taacgataaa ttcattattt   20

<210> 1008
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1008
gtcatacata tacttaacga   20

<210> 1009
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1009
gttggataac tctctccacc   20

<210> 1010
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1010
tgtgccaact gcttgcccgg   20

<210> 1011
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1011
agctcgtccg gggtgatctc   20

<210> 1012
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1012
gtgttcacga cagactctgg   20

<210> 1013
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1013
accagcatta atatgaactc   20

<210> 1014
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1014
tgatctcttt gcgtctttct   20

<210> 1015
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1015
tcaatccaag catgatctct   20

<210> 1016
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1016
aggccgcccc tgccgagcaa   20

<210> 1017
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1017
tgtaaaggga tcacgctgag   20

<210> 1018
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1018
taatagctag aatctttctg   20

<210> 1019
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1019
aataatagct agaatctttc   20

<210> 1020
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1020
gaatgaagta tggtgaaaca   20

<210> 1021
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1021
cggggtggcg ccgacacgac   20

<210> 1022
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1022
ttaagtaagc aaatatacca   20

<210> 1023
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1023
tttaagtaag caaatatacc   20

<210> 1024
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1024
gggtctccag gatttctcgt   20

<210> 1025
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1025
ttttcctttc ttcttaataa   20

<210> 1026
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1026
aaattcatta tttttatcag   20

<210> 1027
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1027
tctctgtgtc tgtttcagat   20

<210> 1028
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1028
gtagtaaagc tggtatcttg   20

<210> 1029
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1029
taatactcca ctgctttttc 20

<210> 1030
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1030
tgatctcctg cagttcgttt 20

<210> 1031
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1031
ttgtgttcac gacagactct 20

<210> 1032
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1032
tgttccacaa gcaataagaa 20

<210> 1033
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1033
tgtttctgtc caggaagtca 20

<210> 1034
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1034
aatcaggcag ccgtttcaat   20

<210> 1035
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1035
ggatgccttc agagtgcata   20

<210> 1036
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1036
aattaccaca ggccgcccct   20

<210> 1037
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1037
ccattattca aagtcctcca   20

<210> 1038
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1038
aagtaccaat ttttagaaac   20

<210> 1039
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1039
tgaaggcctt tgattagggt   20

<210> 1040
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1040
ccttaacttt tcctttcttc   20

<210> 1041
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1041
aaagcacctt ccaattgttg   20

<210> 1042
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1042
tgcaaaagca ccttccaatt   20

<210> 1043
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1043
gtgcaaaagc accttccaat   20

<210> 1044
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1044
aagtaatact ccactgcttt   20

<210> 1045
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1045
agaaagacgt ccatccacta   20

<210> 1046
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1046
tccatctgga gtgtttgcac   20

<210> 1047
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1047
tgtgttcacg acagactctg   20

<210> 1048
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1048
agaatcaaac gccggcatct   20

<210> 1049
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1049
aactccacaa tctgtctccc 20

<210> 1050
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1050
agtttctgaa tttcgtcatc 20

<210> 1051
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1051
cttctgatga taaagttctg 20

<210> 1052
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1052
agcaaggatg ccttcagagt 20

<210> 1053
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1053
atcacaaatt accacaggcc 20

<210> 1054
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1054
tcttccacct acagataata   20

<210> 1055
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1055
gtagtaggat acccaacatg   20

<210> 1056
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1056
ttagggtctc caggatttct   20

<210> 1057
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1057
ttaacttttc ctttcttctt   20

<210> 1058
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1058
tgtgttgccc aacgggtatg   20

<210> 1059
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1059
aacgataaat tcattatttt   20

<210> 1060
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1060
caaaagcacc ttccaattgt   20

<210> 1061
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1061
tgccaactgc ttgcccggga   20

<210> 1062
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1062
aacagagggc tacctcgcct   20

<210> 1063
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1063
ctggagtgtt tgcacagctc   20

<210> 1064
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1064
cattgtgttc acgacagact   20

<210> 1065
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1065
gttccaccat cacaggcaac   20

<210> 1066
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1066
atggagatcc gatcatcaca   20

<210> 1067
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1067
caatccaagc atgatctctt   20

<210> 1068
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1068
gcataatgat agcctcgtcc   20

<210> 1069
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1069
ccgcccctgc cgagcaacca   20

<210> 1070
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1070
attaccacag gccgcccctg   20

<210> 1071
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1071
gtaaagggat cacgctgaga   20

<210> 1072
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1072
ccaattttta gaaacatatt   20

<210> 1073
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1073
aactgtccaa gtatgagcat   20

<210> 1074
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1074
cagatacaag gaaataaaaa                                                    20


<210>  1075
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1075
gcagctctgt gttgtgattt                                                    20


<210>  1076
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1076
acacgagctt cggtgggcaa                                                    20


<210>  1077
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1077
gggtgcacac acgagcttcg                                                    20


<210>  1078
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1078
cctctgtact ccagtctctg                                                    20


<210>  1079
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1079
tgcccaacgg gtatgagcta   20

<210> 1080
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1080
agtctttgta gttggtgatg   20

<210> 1081
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1081
gactttcccg attgtcatac   20

<210> 1082
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1082
caaagtaata ctccactgct   20

<210> 1083
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1083
tggatagaaa gacgtccatc   20

<210> 1084
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1084
tcacaggcaa ctcagtcagc                                                    20


<210>  1085
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1085
tgccaactgt gtttgtgatc                                                    20


<210>  1086
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1086
tcaagacaag tagcataatg                                                    20


<210>  1087
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1087
ctccttatca caaattacca                                                    20


<210>  1088
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1088
atattgagtg gaataattat                                                    20


<210>  1089
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1089
aaaaatcaca tattgagtgg   20

<210> 1090
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1090
aaagtcctcc acaaattact   20

<210> 1091
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1091
ttctcagatt gaagtggagg   20

<210> 1092
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1092
ctgtccaagt atgagcatac   20

<210> 1093
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1093
aataaatcac atcttctctt   20

<210> 1094
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1094
tttcagtttt aagttttaca   20

<210> 1095
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1095
tacaaggaaa taaaaaacac   20

<210> 1096
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1096
ggagacacgg cccgcgaggc   20

<210> 1097
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1097
caaatatacc acacatgatg   20

<210> 1098
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1098
taagtaagca aatataccac   20

<210> 1099
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1099
atcattgcct ccatcaaatc   20

<210> 1100
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1100
tctccaccaa ggtagtaaag   20

<210> 1101
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1101
ttggataact ctctccacca   20

<210> 1102
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1102
tccaattgtt ggataactct   20

<210> 1103
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1103
atgtgatcag tagaaagttt   20

<210> 1104
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1104
ctcctgcagt tcgtttaatt   20

<210> 1105
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1105
cttcaagaca agtagcataa   20

<210> 1106
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1106
ttctgacact tggcataagt   20

<210> 1107
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1107
gattccgtgg gaaatcaaca   20

<210> 1108
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1108
aacaagtacc aatttttaga   20

<210> 1109
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1109
aatgcactac tctttcactg 20

<210> 1110
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1110
aacacttta ggagatgaaa 20

<210> 1111
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1111
aaacacttt aggagatgaa 20

<210> 1112
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1112
aaaacacttt taggagatga 20

<210> 1113
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1113
aaatatacca cacatgatgc 20

<210> 1114
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1114
agtaagcaaa tataccacac   20

<210> 1115
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1115
tatcattgcc tccatcaaat   20

<210> 1116
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1116
tgtcatacat atacttaacg   20

<210> 1117
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1117
agctggtatc ttgactttcc   20

<210> 1118
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1118
agattgcagc ttcctttctt   20

<210> 1119
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1119
atcttccaga aagatgacgc                                                    20


<210>  1120
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1120
ggctgctcaa atatttcctt                                                    20


<210>  1121
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1121
tgtttgtgat ccccacagtt                                                    20


<210>  1122
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1122
taatatgaac tccacaatct                                                    20


<210>  1123
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1123
gcattaatat gaactccaca                                                    20


<210>  1124
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1124
gcaaggatgc cttcagagtg   20

<210> 1125
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1125
atgatcacag gcatcaattt   20

<210> 1126
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1126
ttaccacagg ccgcccctgc   20

<210> 1127
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1127
tccacaaatt actgggaaaa   20

<210> 1128
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1128
cagttttaag ttttacagtt   20

<210> 1129
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1129
tttaggagat gaaaacacaa   20

<210> 1130
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1130
agcagctctg tgttgtgatt   20

<210> 1131
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1131
agcagaatca tatcctctgt   20

<210> 1132
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1132
taacttttcc tttcttctta   20

<210> 1133
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1133
tggtatcttg actttcccga   20

<210> 1134
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1134
aagcaaagta atactccact   20

<210> 1135
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1135
gcataaatga actgaagttg   20

<210> 1136
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1136
tgcataaatg aactgaagtt   20

<210> 1137
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1137
tctgcataaa tgaactgaag   20

<210> 1138
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1138
tggctgctca aatatttcct   20

<210> 1139
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1139
ctggctgctc aaatatttcc   20

<210> 1140
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1140
agactggtgt gtttctgtcc   20

<210> 1141
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1141
caatttatcc accaaagcca   20

<210> 1142
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1142
tattgagtgg aataattata   20

<210> 1143
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1143
actgggaaaa tgtaagaggt   20

<210> 1144
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1144
aaggaaataa aaaacacttt   20

<210> 1145
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1145
gcttcggtgg gcaatctgcg   20

<210> 1146
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1146
ggtgcacaca cgagcttcgg   20

<210> 1147
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1147
tctcgttcga ggaacatggt   20

<210> 1148
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1148
aatctttatc attgcctcca   20

<210> 1149
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1149
tgccttaact tttcctttct                                              20


<210>  1150
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1150
ataacgataa attcattatt                                              20


<210>  1151
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1151
tttcaagtct ttgtagttgg                                              20


<210>  1152
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1152
tcgccttgtg ccaactgctt                                              20


<210>  1153
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1153
acaggcaact cagtcagctc                                              20


<210>  1154
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1154
ggtgtgtttc tgtccaggaa   20

<210> 1155
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1155
cagaactgac ttctgatgat   20

<210> 1156
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1156
atttggcaag attccgtggg   20

<210> 1157
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1157
tttcactggt ctgaatgaag   20

<210> 1158
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1158
tacagtttga tttaaaaaca   20

<210> 1159
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1159
cattcagcag tcatttaaaa   20

<210> 1160
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1160
taaattcatt atttttatca   20

<210> 1161
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1161
ttgtgaataa cgataaattc   20

<210> 1162
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1162
atagcctttg ctttccaaaa   20

<210> 1163
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1163
aaaagcacct tccaattgtt   20

<210> 1164
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1164
aattcacagt atagtcatca   20

<210> 1165
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1165
gttccacaag caataagaat   20

<210> 1166
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1166
gtataagcct ttgtactggc   20

<210> 1167
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1167
catcataagg gcaaacatca   20

<210> 1168
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1168
ttctgatgat aaagttctgt   20

<210> 1169
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1169
tcagtgcccc ttcaagacaa   20

<210> 1170
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1170
gcatcaattt atccaccaaa   20

<210> 1171
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1171
atgatgatca tgatcacagg   20

<210> 1172
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1172
taatagcagc tctgtgttgt   20

<210> 1173
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1173
gccaggggcg agtggctggc   20

<210> 1174
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1174
gtagtttaag taagcaaata                                          20


<210>  1175
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1175
gaacatggta gtttaagtaa                                          20


<210>  1176
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1176
tcattgcctc catcaaatcc                                          20


<210>  1177
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1177
tgattccatt gtgaataacg                                          20


<210>  1178
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1178
ctttttcaag tctttgtagt                                          20


<210>  1179
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1179
gctttccaaa aacttttca   20

<210> 1180
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1180
agtgcaaaag caccttccaa   20

<210> 1181
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1181
tgtgatcagt agaaagttta   20

<210> 1182
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1182
aaagtaatac tccactgctt   20

<210> 1183
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1183
attgtgttca cgacagactc   20

<210> 1184
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1184
aaccacccaa attcacagta   20

<210> 1185
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1185
cattaatatg aactccacaa   20

<210> 1186
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1186
ctcaggacca gcattaatat   20

<210> 1187
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1187
tcaccagcaa ggatgccttc   20

<210> 1188
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1188
caggccgccc ctgccgagca   20

<210> 1189
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1189
tattgtcttc tcagattgaa   20

<210> 1190
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1190
agtatggtga aacaagtacc   20

<210> 1191
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1191
tgccactggc tttagatact   20

<210> 1192
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1192
atatttcgct tcctaaattt   20

<210> 1193
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1193
gtaatatttc gcttcctaaa   20

<210> 1194
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1194
aatttaaagt ttgtgctata   20

<210> 1195
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1195
acacttttag gagatgaaaa   20

<210> 1196
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1196
agtttaagta agcaaatata   20

<210> 1197
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1197
ccagcagaat catatcctct   20

<210> 1198
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1198
tttttcaagt ctttgtagtt   20

<210> 1199
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1199
gcaattgtct ctgtgtctgt   20

<210> 1200
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1200
aacgagcttg gcaattgtct   20

<210> 1201
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1201
gattggtgtg ttctatgaca   20

<210> 1202
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1202
ctgcagttcg tttaattcga   20

<210> 1203
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1203
tctggagtgt ttgcacagct   20

<210> 1204
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1204
ctctctcctt acagtaacga   20

<210> 1205
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1205
gtttctgaat ttcgtcatcc   20

<210> 1206
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1206
aagacaagta gcataatgat   20

<210> 1207
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1207
attccgtggg aaatcaacat   20

<210> 1208
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1208
aaggatttac taaaaaaagg   20

<210> 1209
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1209
attgagtgga ataattataa   20

<210> 1210
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1210
ttcacaaaaa tcacatattg   20

<210> 1211
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1211
aaacatattg tcttctcaga   20

<210> 1212
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1212
actgtccaag tatgagcata   20

<210> 1213
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1213
gcaaaccctt ccctaactgt   20

<210> 1214
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1214
atcctaccaa taaaattttt   20

<210> 1215
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1215
caaagcagct tgaatttaaa   20

<210> 1216
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1216
ggagatgaaa acacaaagta   20

<210> 1217
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1217
gcaatctgcg ggctcggggg   20

<210> 1218
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1218
ggaacatggt agtttaagta   20

<210> 1219
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1219
cagtctctga aggcctttga   20

<210> 1220
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1220
ctattgacag gactgggttc   20

<210> 1221
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1221
accaaggtag taaagctggt   20

<210> 1222
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1222
gtgatcagta gaaagtttat   20

<210> 1223
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1223
ttcttgtctt tgcctgttct   20

<210> 1224
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1224
agcttccttt cttgtctttg 20

<210> 1225
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1225
tcattgtgtt cacgacagac 20

<210> 1226
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1226
caccaatctc aggaccagca 20

<210> 1227
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1227
gtttcaatcc aagcatgatc 20

<210> 1228
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1228
tgttgctagt ttctgaattt 20

<210> 1229
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1229
caggcatcaa tttatccacc   20

<210> 1230
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1230
ttctttttgt gttcttaatg   20

<210> 1231
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1231
ctgggaaaat gtaagaggta   20

<210> 1232
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1232
ctccacaaat tactgggaaa   20

<210> 1233
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1233
aaatgcacta ctctttcact   20

<210> 1234
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1234
aattaaatgc actactcttt   20

<210> 1235
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1235
tccaattaaa tgcactactc   20

<210> 1236
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1236
aaataaatca catcttctct   20

<210> 1237
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1237
tagcagctct gtgttgtgat   20

<210> 1238
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1238
ctattccaag gtgtacatca   20

<210> 1239
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1239
tgtgaataac gataaattca   20

<210> 1240
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1240
tttcagattc gaagtcatag   20

<210> 1241
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1241
gtgctgtcca cacgagagag   20

<210> 1242
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1242
tcagaagcaa agtaatactc   20

<210> 1243
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1243
atgacgcgat tggtgtgttc   20

<210> 1244
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1244
atcatcatct tccagaaaga 20

<210> 1245
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1245
gtttgtgatc cccacagtta 20

<210> 1246
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1246
ttcttgcatg gagatccgat 20

<210> 1247
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1247
gatctctttg cgtctttctt 20

<210> 1248
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1248
gtagcataat gatagcctcg 20

<210> 1249
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1249
agtagcataa tgatagcctc   20

<210> 1250
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1250
aaatcacata ttgagtggaa   20

<210> 1251
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1251
tcacatcttc tcttaaaact   20

<210> 1252
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1252
ttcgcttcct aaatttcttc   20

<210> 1253
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1253
cttttaggag atgaaaacac   20

<210> 1254
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1254
cggagacacg gcccgcgagg                                                    20


<210>  1255
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1255
acgagagaga ttgcagcttc                                                    20


<210>  1256
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1256
cacacgagag agattgcagc                                                    20


<210>  1257
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1257
gttgtgctgt ccacacgaga                                                    20


<210>  1258
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1258
gctgctcaaa tatttccttc                                                    20


<210>  1259
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1259
aggcaactca gtcagctcct 20

<210> 1260
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1260
tttgtgatcc ccacagttaa 20

<210> 1261
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1261
tcatgatgat catgatcaca 20

<210> 1262
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1262
accaattttt agaaacatat 20

<210> 1263
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1263
aatttcttcc acctacagat 20

<210> 1264
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1264
aaagcagctt gaatttaaag 20

<210> 1265
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1265
aaatcatatt gtcagttgtc 20

<210> 1266
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1266
ttaggagatg aaaacacaaa 20

<210> 1267
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1267
ggtagtttaa gtaagcaaat 20

<210> 1268
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1268
tcgaggaaca tggtagttta 20

<210> 1269
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1269
tatcttgttg cttgtgaact   20

<210> 1270
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1270
gtgaataacg ataaattcat   20

<210> 1271
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1271
ctccaccaag gtagtaaagc   20

<210> 1272
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1272
catcatcatc ttccagaaag   20

<210> 1273
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1273
ctcattgtgt tcacgacaga   20

<210> 1274
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1274
ggcaactcag tcagctcctc   20

<210> 1275
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1275
gaactgactt ctgatgataa   20

<210> 1276
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1276
tcagaactga cttctgatga   20

<210> 1277
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1277
ccattatcag aactgacttc   20

<210> 1278
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1278
catgatgatc atgatcacag   20

<210> 1279
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1279
cttgatcgtt ctttttgtgt   20

<210> 1280
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1280
taaggattta ctaaaaaag   20

<210> 1281
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1281
ataaggattt actaaaaaaa   20

<210> 1282
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1282
aataaggatt tactaaaaaa   20

<210> 1283
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1283
tgagtggaat aattataact   20

<210> 1284
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1284
aacatggtag tttaagtaag 20

<210> 1285
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1285
gccttaactt ttcctttctt 20

<210> 1286
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1286
atatcttgtt gcttgtgaac 20

<210> 1287
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1287
gccttgtgcc aactgcttgc 20

<210> 1288
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1288
acgtccatcc actactgctg 20

<210> 1289
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1289
ccttctgcat aaatgaactg   20

<210> 1290
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1290
ccaaattcac agtatagtca   20

<210> 1291
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1291
tacagtaacg aagacccatc   20

<210> 1292
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1292
actccacaat ctgtctcccg   20

<210> 1293
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1293
ataagggcaa acatcacaag   20

<210> 1294
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1294
tcttgcatgg agatccgatc   20

<210> 1295
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1295
ctctttgcgt ctttcttgca   20

<210> 1296
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1296
aaatcaggca gccgtttcaa   20

<210> 1297
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1297
attctgacac ttggcataag   20

<210> 1298
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1298
agattccgtg ggaaatcaac   20

<210> 1299
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1299
actgatatat aaataaggat   20

<210> 1300
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1300
ttgagtggaa taattataac   20

<210> 1301
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1301
aatagctaga atctttctga   20

<210> 1302
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1302
taccaatttt tagaaacata   20

<210> 1303
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1303
tctgaatgaa gtatggtgaa   20

<210> 1304
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1304
aagtatgagc atacactgcc   20

<210> 1305
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1305
tttaaaatca tattgtcagt   20

<210> 1306
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1306
aggaaataaa aaacactttt   20

<210> 1307
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1307
atagcagctc tgtgttgtga   20

<210> 1308
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1308
tagtttaagt aagcaaatat   20

<210> 1309
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1309
aatcatatcc tctgtactcc   20

<210> 1310
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1310
cttttccttt cttcttaata   20

<210> 1311
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1311
tgctttccaa aaactttttc   20

<210> 1312
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1312
tcatcatctt ccagaaagat   20

<210> 1313
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1313
gtttgcacag ctcgtccggg   20

<210> 1314
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1314
atctggagtg tttgcacagc   20

<210> 1315
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1315
tgctcaaata tttccttctg   20

<210> 1316
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1316
ttccacaagc aataagaatc   20

<210> 1317
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1317
cttgttccac aagcaataag   20

<210> 1318
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1318
acaccaatct caggaccagc   20

<210> 1319
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1319
ccacaccaat ctcaggacca   20

<210> 1320
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1320
gatctctcat gatgatcatg   20

<210> 1321
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1321
tatcacaaat taccacaggc   20

<210> 1322
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1322
cacagatttg gcaagattcc   20

<210> 1323
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1323
ctgatatata aataaggatt   20

<210> 1324
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1324
cctaactgtc caagtatgag

<210> 1325
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1325
cttagatata aatcctacca

<210> 1326
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1326
caatattaat ttaatagcag

<210> 1327
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1327
ggcaatctgc gggctcgggg

<210> 1328
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1328
acacatgatg ccggagacac

<210> 1329
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1329
atcatatcct ctgtactcca                                                        20


<210>  1330
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1330
ccgattgtca tacatatact                                                        20


<210>  1331
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1331
gtaaagctgg tatcttgact                                                        20


<210>  1332
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1332
attgttggat aactctctcc                                                        20


<210>  1333
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1333
cttgtgccaa ctgcttgccc                                                        20


<210>  1334
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1334
aagaatcaaa cgccggcatc   20

<210> 1335
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1335
tttcttgcat ggagatccga   20

<210> 1336
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1336
tccaagcatg atctctttgc   20

<210> 1337
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1337
gtgcatataa gtaatttctt   20

<210> 1338
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1338
ttcaattcac cagcaaggat   20

<210> 1339
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1339
cagcaactgt aaagggatca                                          20


<210>  1340
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1340
aaagccagca actgtaaagg                                          20


<210>  1341
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1341
aaatcaaggt tttaaataca                                          20


<210>  1342
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1342
taaatcaagg ttttaaatac                                          20


<210>  1343
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1343
caatttttag aaacatattg                                          20


<210>  1344
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1344
atcacatctt ctcttaaaac   20

<210>   1345
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1345
atttcttcca cctacagata   20

<210>   1346
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1346
aatatttcgc ttcctaaatt   20

<210>   1347
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1347
acttttcctt tcttcttaat   20

<210>   1348
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1348
ttttcaagtc tttgtagttg   20

<210>   1349
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400> 1349
tgtgctgtcc acacgagaga   20

<210> 1350
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1350
cagctcgtcc ggggtgatct   20

<210> 1351
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1351
tccacaagca ataagaatca   20

<210> 1352
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1352
ttacagtaac gaagacccat   20

<210> 1353
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1353
tcaggaccag cattaatatg   20

<210> 1354
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1354
accaatctca ggaccagcat   20

<210> 1355
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1355
aagtagcata atgatagcct   20

<210> 1356
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1356
ccttatcaca aattaccaca   20

<210> 1357
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1357
aatcacatat tgagtggaat   20

<210> 1358
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1358
tttagatact ccaattaaat   20

<210> 1359
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1359
taactgtcca agtatgagca   20

<210> 1360
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1360
cccaccaatg cactactgta   20

<210> 1361
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1361
ttgtgctata aaattgtgca   20

<210> 1362
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1362
taggataccc aacatgtaca   20

<210> 1363
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1363
acagatacaa ggaaataaaa   20

<210> 1364
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1364
taatttaata gcagctctgt   20

<210> 1365
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1365
gtaagcaaat ataccacaca   20

<210> 1366
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1366
tagggtctcc aggatttctc   20

<210> 1367
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1367
ttgctttcca aaaacttttt   20

<210> 1368
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1368
tgttggataa ctctctccac   20

<210> 1369
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1369
taaacacaag tgcaaaagca   20

<210> 1370
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1370
ttaaacacaa gtgcaaaagc   20

<210> 1371
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1371
tcctgcagtt cgtttaattc   20

<210> 1372
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1372
ccaatctcag gaccagcatt   20

<210> 1373
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1373
aaataaggat ttactaaaaa   20

<210> 1374
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1374
gtaacttcac aaaaatcaca   20

<210> 1375
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1375
aaataatagc tagaatcttt   20

<210> 1376
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1376
ttttcagttt taagttttac   20

<210> 1377
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1377
ggtggcgccg acacgactcc   20

<210> 1378
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1378
tataccacac atgatgccgg   20

<210> 1379
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1379
ttgtcataca tatacttaac   20

<210> 1380
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1380
ttgttggata actctctcca   20

<210> 1381
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1381
cttctgcata aatgaactga   20

<210> 1382
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1382
atcacaggca actcagtcag   20

<210> 1383
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1383
tctctcctta cagtaacgaa   20

<210> 1384
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1384
ctccacaatc tgtctcccgt                                                    20


<210>  1385
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1385
agcattaata tgaactccac                                                    20


<210>  1386
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1386
cagcattaat atgaactcca                                                    20


<210>  1387
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1387
catggagatc cgatcatcac                                                    20


<210>  1388
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1388
atcaggcagc cgtttcaatc                                                    20


<210>  1389
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1389
gatgccttca gagtgcatat   20

<210> 1390
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1390
cattctgaca cttggcataa   20

<210> 1391
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1391
acagatttgg caagattccg   20

<210> 1392
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1392
taaataagga tttactaaaa   20

<210> 1393
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1393
aattactggg aaaatgtaag   20

<210> 1394
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1394
gagggtccag aaatgcaaca   20

<210> 1395
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1395
aaatttcttc cacctacaga   20

<210> 1396
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1396
acttttcaa gtctttgtag   20

<210> 1397
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1397
cttaacgagc ttggcaattg   20

<210> 1398
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1398
taaagctggt atcttgactt   20

<210> 1399
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1399
ccttgtgcca actgcttgcc   20

<210> 1400
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1400
acatcatcat cttccagaaa   20

<210> 1401
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1401
tcaaagtatc tgctgtctca   20

<210> 1402
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1402
tactgggaaa atgtaagagg   20

<210> 1403
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1403
agtcctccac aaattactgg   20

<210> 1404
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1404
attccattat tcaaagtcct                                                    20


<210>  1405
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1405
acagtttgat ttaaaaacaa                                                    20


<210>  1406
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1406
tcagttttaa gttttacagt                                                    20


<210>  1407
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1407
aatcctacca ataaaatttt                                                    20


<210>  1408
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1408
acttagatat aaatcctacc                                                    20


<210>  1409
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1409
taatatttcg cttcctaaat   20

<210> 1410
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1410
acttttagga gatgaaaaca   20

<210> 1411
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1411
gatacaagga aataaaaaac   20

<210> 1412
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1412
attcagcagt catttaaaaa   20

<210> 1413
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1413
cacacatgat gccggagaca   20

<210> 1414
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1414
cctccatcaa atcccacacc   20

<210> 1415
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1415
gataaattca ttatttttat   20

<210> 1416
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1416
tgaataacga taaattcatt   20

<210> 1417
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1417
aattgttgga taactctctc   20

<210> 1418
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1418
aatgtgatca gtagaaagtt   20

<210> 1419
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1419
cagcttcctt tcttgtcttt                                                    20


<210>  1420
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1420
gattgcagct tcctttcttg                                                    20


<210>  1421
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1421
tactccactg ctttttcttc                                                    20


<210>  1422
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1422
ccatctggag tgtttgcaca                                                    20


<210>  1423
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1423
ctgctcaaat atttccttct                                                    20


<210>  1424
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1424
ctagtttctg aatttcgtca                                          20


<210>  1425
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1425
tctgatgata aagttctgtt                                          20


<210>  1426
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1426
cattatcaga actgacttct                                          20


<210>  1427
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1427
ttcaccagca aggatgcctt                                          20


<210>  1428
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1428
gatttggcaa gattccgtgg                                          20


<210>  1429
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1429
aactgatata taaataagga                                                    20


<210>  1430
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1430
gattccatta ttcaaagtcc                                                    20


<210>  1431
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1431
agggtccaga aatgcaacac                                                    20


<210>  1432
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1432
tatgttaagg attgagaccc                                                    20


<210>  1433
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1433
tcattcagca gtcatttaaa                                                    20


<210>  1434
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1434
cgagcttcgg tgggcaatct                                                    20




<210>  1435
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1435
tgtactccag tctctgaagg                                                    20




<210>  1436
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1436
ccaaggtagt aaagctggta                                                    20




<210>  1437
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1437
ttgtgccaac tgcttgcccg                                                    20




<210>  1438
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1438
actccactgc tttttcttcc                                                    20




<210>  1439
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1439
gctcaaatat ttccttctgc                                              20


<210>  1440
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1440
aaaccaccca aattcacagt                                              20


<210>  1441
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1441
acttgacgtg ttgctacacc                                              20


<210>  1442
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1442
cagtcagctc ctcaagaact                                              20


<210>  1443
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1443
caggaccagc attaatatga                                              20


<210>  1444
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1444
aatccaagca tgatctcttt                                                    20


<210>  1445
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1445
gacttctgat gataaagttc                                                    20


<210>  1446
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1446
tagcataatg atagcctcgt                                                    20


<210>  1447
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1447
cagcaaggat gccttcagag                                                    20


<210>  1448
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1448
cataagtgtg atctctcatg                                                    20


<210>  1449
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1449
accttgatcg ttcttttttgt   20

<210> 1450
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1450
cagcaaggtg gaaagccagc   20

<210> 1451
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1451
ttggcaagat tccgtgggaa   20

<210> 1452
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1452
cagatttggc aagattccgt   20

<210> 1453
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1453
aatcaaggtt ttaaatacaa   20

<210> 1454
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1454
attactggga aaatgtaaga   20

<210> 1455
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1455
taaatgcact actctttcac   20

<210> 1456
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1456
aaaatcatat tgtcagttgt   20

<210> 1457
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1457
aaaaacactt ttaggagatg   20

<210> 1458
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1458
ttaatttaat agcagctctg   20

<210> 1459
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1459
tgatgccgga gacacggccc   20

<210> 1460
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1460
ttatttttat cagagcgctg   20

<210> 1461
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1461
tagtaaagct ggtatcttga   20

<210> 1462
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1462
cactactgct gcaacatcat   20

<210> 1463
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1463
atcaaagtat ctgctgtctc   20

<210> 1464
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1464
gcatggagat ccgatcatca                                               20


<210>  1465
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1465
ctgttgctag tttctgaatt                                               20


<210>  1466
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1466
gataaagttc tgttgctagt                                               20


<210>  1467
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1467
ccacaggccg cccctgccga                                               20


<210>  1468
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1468
gtcacagatt tggcaagatt                                               20


<210>  1469
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1469
ataaataagg atttactaaa                                              20




<210>  1470
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1470
atcacatatt gagtggaata                                              20




<210>  1471
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1471
cagattgaag tggagggtcc                                              20




<210>  1472
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1472
atttaaagtt tgtgctataa                                              20




<210>  1473
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1473
gtcattcagc agtcatttaa                                              20




<210>  1474
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1474
ggcgagtggc tggcgggatc                                    20


<210>  1475
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1475
cgaggaacat ggtagtttaa                                    20


<210>  1476
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1476
ctcgttcgag gaacatggta                                    20


<210>  1477
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1477
cttcccaatc tttatcattg                                    20


<210>  1478
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1478
cgccttgtgc caactgcttg                                    20


<210>  1479
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1479
ttgtgctgtc cacacgagag                                                    20


<210>  1480
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1480
tcctttatgt gatccttcaa                                                    20


<210>  1481
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1481
cgccggcatc tctggatctc                                                    20


<210>  1482
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1482
aatttatcca ccaaagccag                                                    20


<210>  1483
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1483
agattccatt attcaaagtc                                                    20


<210>  1484
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1484
aatgaagtat ggtgaaacaa   20

<210> 1485
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1485
attaaatgca ctactctttc   20

<210> 1486
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1486
tatttcgctt cctaaatttc   20

<210> 1487
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1487
atgttaagga ttgagaccca   20

<210> 1488
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1488
ggatacccaa catgtacaca   20

<210> 1489
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1489
tacagataca aggaaataaa   20

<210> 1490
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1490
ctgtactcca gtctctgaag   20

<210> 1491
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1491
taacgagctt ggcaattgtc   20

<210> 1492
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1492
agtaaagctg gtatcttgac   20

<210> 1493
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1493
gtttctgtcc aggaagtcac   20

<210> 1494
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1494
ctggtgtgtt tctgtccagg   20

<210> 1495
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1495
ttgtgatccc cacagttaaa   20

<210> 1496
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1496
ctgccaactg tgtttgtgat   20

<210> 1497
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1497
cttgcatgga gatccgatca   20

<210> 1498
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1498
tttctgaatt tcgtcatcca   20

<210> 1499
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1499
caagacaagt agcataatga                                              20



<210>  1500
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1500
agtgcatata agtaatttct                                              20



<210>  1501
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1501
attgtgcaaa tatgttaagg                                              20



<210>  1502
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1502
atgtacacat cccatcttca                                              20



<210>  1503
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1503
catgtacaca tcccatcttc                                              20



<210>  1504
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1504
acccaacatg tacacatccc                                                20


<210>  1505
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1505
aggagatgaa aacacaaagt                                                20


<210>  1506
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1506
cacacgagct tcggtgggca                                                20


<210>  1507
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1507
gcttcccaat ctttatcatt                                                20


<210>  1508
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1508
attgtgaata acgataaatt                                                20


<210>  1509
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1509
ggcaattgtc tctgtgtctg   20

<210> 1510
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1510
aagctggtat cttgactttc   20

<210> 1511
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1511
agcaaagtaa tactccactg   20

<210> 1512
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1512
tgtttgcaca gctcgtccgg   20

<210> 1513
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1513
caggcaactc agtcagctcc   20

<210> 1514
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1514
cctctctcct tacagtaacg   20

<210> 1515
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1515
gatgataaag ttctgttgct   20

<210> 1516
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1516
agcataatga tagcctcgtc   20

<210> 1517
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1517
ctctcatgat gatcatgatc   20

<210> 1518
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1518
gccgcccctg ccgagcaacc   20

<210> 1519
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1519
cttaatcata cagtttcgta                                          20


<210>  1520
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1520
ctgaatgaag tatggtgaaa                                          20


<210>  1521
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1521
ctccaattaa atgcactact                                          20


<210>  1522
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1522
ctttagatac tccaattaaa                                          20


<210>  1523
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1523
aacccttccc taactgtcca                                          20


<210>  1524
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1524
acccaccaat gcactactgt                                                      20


<210>  1525
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1525
tgtgctataa aattgtgcaa                                                      20


<210>  1526
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1526
atttaaaatc atattgtcag                                                      20


<210>  1527
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1527
aggataccca acatgtacac                                                      20


<210>  1528
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1528
gtggctggcg ggatcggggg                                                      20


<210>  1529
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1529
cagcagaatc atatcctctg                                                    20


<210>  1530
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1530
tttcctttct tcttaataag                                                    20
                                            .


<210>  1531
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1531
tttgctttcc aaaaactttt                                                    20


<210>  1532
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1532
cccgattgtc atacatatac                                                    20


<210>  1533
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1533
aaacacaagt gcaaaagcac                                                    20


<210>  1534
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1534
ttctgcataa atgaactgaa   20

<210> 1535
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1535
cttcaaacca cccaaattca   20

<210> 1536
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1536
tcagtcagct cctcaagaac   20

<210> 1537
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1537
taacgaagac ccatcaaagt   20

<210> 1538
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1538
gtaacgaaga cccatcaaag   20

<210> 1539
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1539
tgaactccac aatctgtctc                                                    20


<210>  1540
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1540
tttcaatcca agcatgatct                                                    20


<210>  1541
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1541
cccattatca gaactgactt                                                    20


<210>  1542
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1542
atgccttcag agtgcatata                                                    20


<210>  1543
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1543
aaattaccac aggccgcccc                                                    20


<210>  1544
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1544
ttccattatt caaagtcctc   20

<210> 1545
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1545
ctaactgtcc aagtatgagc   20

<210> 1546
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1546
caaacccttc cctaactgtc   20

<210> 1547
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1547
tcttaaaact tggcaaaccc   20

<210> 1548
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1548
ttcagcagtc atttaaaaaa   20

<210> 1549
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1549
atattaattt aatagcagct   20

<210> 1550
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1550
aatattaatt taatagcagc   20

<210> 1551
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1551
acatgatgcc ggagacacgg   20

<210> 1552
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1552
aggaacatgg tagtttaagt   20

<210> 1553
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1553
caatctttat cattgcctcc   20

<210> 1554
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1554
ataacgata aattcattat   20

<210> 1555
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1555
tcttgtcttt gcctgttctg   20

<210> 1556
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1556
actactgctg caacatcatc   20

<210> 1557
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1557
cacagctcgt ccgggggtgat   20

<210> 1558
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1558
gcacagctcg tccgggggtga   20

<210> 1559
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1559
cagtatagtc atcaaagttg   20

<210> 1560
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1560
ccatcaaagt atctgctgtc   20

<210> 1561
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1561
atcagaactg acttctgatg   20

<210> 1562
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1562
tgccttcaga gtgcatataa   20

<210> 1563
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1563
atgtttcaat tcaccagcaa   20

<210> 1564
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1564
ttcgtacatt ttgtatagat                                              20


<210>  1565
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1565
cactactgta atatttcgct                                              20


<210>  1566
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1566
tcagcagtca tttaaaaaat                                              20


<210>  1567
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1567
ggggtgcaca cacgagcttc                                              20


<210>  1568
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1568
ccagtctctg aaggcctttg                                              20


<210>  1569
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1569
tcccaatctt tatcattgcc   20

<210> 1570
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1570
ttaacgagct tggcaattgt   20

<210> 1571
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1571
tggagtgttt gcacagctcg   20

<210> 1572
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1572
aaattcacag tatagtcatc   20

<210> 1573
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1573
ctttcttgca tggagatccg   20

<210> 1574
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1574
agaactgact tctgatgata   20

<210> 1575
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1575
catgtttcaa ttcaccagca   20

<210> 1576
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1576
tctgacactt ggcataagtg   20

<210> 1577
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1577
gccgagcaac cacttgctga   20

<210> 1578
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1578
tgccgagcaa ccacttgctg   20

<210> 1579
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1579
ggggcacctt gatcgttctt   20

<210> 1580
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1580
tctcagcaca gcaaggtgga   20

<210> 1581
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1581
tccgtgggaa atcaacatca   20

<210> 1582
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1582
ttccgtggga aatcaacatc   20

<210> 1583
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1583
agatttggca agattccgtg   20

<210> 1584
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1584
cttcacaaaa atcacatatt   20

<210> 1585
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1585
aaatcctacc aataaaattt   20

<210> 1586
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1586
ggaaataaaa aacactttta   20

<210> 1587
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1587
acacacgagc ttcggtgggc   20

<210> 1588
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1588
aggccagggg cgagtggctg   20

<210> 1589
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1589
gctattgaca ggactgggtt   20

<210> 1590
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1590
tcatacatat acttaacgag   20

<210> 1591
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1591
aaagctggta tcttgacttt   20

<210> 1592
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1592
caccttccaa ttgttggata   20

<210> 1593
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1593
atcagaagca aagtaatact   20

<210> 1594
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1594
ccactactgc tgcaacatca   20

<210> 1595
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1595
cacccaaatt cacagtatag   20

<210> 1596
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1596
tctcaggacc agcattaata   20

<210> 1597
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1597
ttcaatccaa gcatgatctc   20

<210> 1598
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1598
acttctgatg ataaagttct   20

<210> 1599
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1599
tgacacttgg cataagtgtg   20

<210> 1600
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1600
tggggcacct tgatcgttct   20

<210> 1601
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1601
tcatagcctc tcagcacagc   20

<210> 1602
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1602
tcgtacattt tgtatagata   20

<210> 1603
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1603
aaacccttcc ctaactgtcc   20

<210> 1604
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1604
tttttcagtt ttaagtttta   20

<210> 1605
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1605
ttagatataa atcctaccaa   20

<210> 1606
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1606
cccaacatgt acacatccca   20

<210> 1607
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1607
ctacagatac aaggaaataa   20

<210> 1608
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1608
ccatatcttg ttgcttgtga   20

<210> 1609
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1609
ctttcccgat tgtcatacat   20

<210> 1610
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1610
atggatagaa agacgtccat   20

<210> 1611
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1611
acagctcgtc cggggtgatc   20

<210> 1612
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1612
tgttcacgac agactctggc   20

<210> 1613
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1613
aatatgaact ccacaatctg   20

<210> 1614
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1614
gccttcagag tgcatataag   20

<210> 1615
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1615
accagcaagg atgccttcag   20

<210> 1616
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1616
tcacaaatta ccacaggccg   20

<210> 1617
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1617
caaggtttta aatacaaaag   20

<210> 1618
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1618
cttaaaactt ggcaaaccct   20

<210> 1619
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400>   1619
tcgcttccta aatttcttcc   20

<210>   1620
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1620
aaaaaacact tttaggagat   20

<210>   1621
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1621
tgtcattcag cagtcattta   20

<210>   1622
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1622
aatagcagct ctgtgttgtg   20

<210>   1623
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1623
ctctgtactc cagtctctga   20

<210>   1624
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400> 1624
atccatatct tgttgcttgt   20

<210> 1625
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1625
aactttttca agtctttgta   20

<210> 1626
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1626
cttttaaaca caagtgcaaa   20

<210> 1627
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1627
cacgagagag attgcagctt   20

<210> 1628
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1628
cgggaaaagg caggttgtgc   20

<210> 1629
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1629
catcttccag aaagatgacg   20

<210> 1630
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1630
cctgcagttc gtttaattcg   20

<210> 1631
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1631
atgatctctt tgcgtctttc   20

<210> 1632
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1632
aagttctgtt gctagtttct   20

<210> 1633
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1633
agagcattct gacacttggc   20

<210> 1634
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1634
ttatcacaaa ttaccacagg   20

<210> 1635
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1635
taaagggatc acgctgagaa   20

<210> 1636
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1636
tataaataag gatttactaa   20

<210> 1637
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1637
ttttagaaac atattgtctt   20

<210> 1638
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1638
tttttagaaa catattgtct   20

<210> 1639
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   1639
aatcacatct tctcttaaaa                                              20


<210>   1640
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1640
ctgtaatatt tcgcttccta                                             20


<210>   1641
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1641
cagctctgtg ttgtgatttt                                             20


<210>   1642
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1642
gagcttcggt gggcaatctg                                             20


<210>   1643
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1643
ctttccaaaa actttttcaa                                             20


<210>   1644
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

```
<400>  1644
ttcagattcg aagtcatagc                                                    20


<210>  1645
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1645
ggataactct ctccaccaag                                                    20


<210>  1646
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1646
acttttaaac acaagtgcaa                                                    20


<210>  1647
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1647
ggtgtgttct atgacagcac                                                    20


<210>  1648
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1648
gatgacgcga ttggtgtgtt                                                    20


<210>  1649
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1649
cagaaagatg acgcgattgg   20

<210> 1650
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1650
catcacaggc aactcagtca   20

<210> 1651
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1651
cgaagaccca tcaaagtatc   20

<210> 1652
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1652
atctcaggac cagcattaat   20

<210> 1653
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1653
gctggtataa gcctttgtac   20

<210> 1654
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1654
ataatgatag cctcgtccca   20

<210> 1655
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1655
tgatctctca tgatgatcat   20

<210> 1656
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1656
gcaccttgat cgttcttttt   20

<210> 1657
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1657
tagattccat tattcaaagt   20

<210> 1658
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1658
atagctagaa tctttctgat   20

<210> 1659
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1659
tttagaaaca tattgtcttc   20

<210> 1660
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1660
tgaatgaagt atggtgaaac   20

<210> 1661
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1661
cctacagata atagacaaca   20

<210> 1662
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1662
gtgctataaa attgtgcaaa   20

<210> 1663
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1663
aatttaaaat catattgtca   20

<210> 1664
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1664
gggatcgggg gtgcacacac   20

<210> 1665
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1665
tggtagttta agtaagcaaa   20

<210> 1666
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1666
atggtagttt aagtaagcaa   20

<210> 1667
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1667
ttcccaatct ttatcattgc   20

<210> 1668
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1668
acttaacgag cttggcaatt   20

<210> 1669
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1669
ttttaaacac aagtgcaaaa   20

<210> 1670
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1670
ccaatcaaca gagggctacc   20

<210> 1671
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1671
gcatcagaag caaagtaata   20

<210> 1672
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1672
caaattcaca gtatagtcat   20

<210> 1673
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1673
cttgacgtgt tgctacacca   20

<210> 1674
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1674
ccccacagtt aaagctcctc                                               20


<210>  1675
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1675
tccccacagt taaagctcct                                               20


<210>  1676
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1676
gcattctgac acttggcata                                               20


<210>  1677
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1677
gagtggggca ccttgatcgt                                               20


<210>  1678
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1678
tgggaaaatg taagaggtaa                                               20


<210>  1679
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1679
agattgaagt ggagggtcca                                                    20


<210>  1680
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1680
taaaaaacac ttttaggaga                                                    20


<210>  1681
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1681
actccagtct ctgaaggcct                                                    20


<210>  1682
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1682
cgagcttggc aattgtctct                                                    20


<210>  1683
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1683
tttcccgatt gtcatacata                                                    20


<210>  1684
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1684
accttccaat tgttggataa                                              20


<210>  1685
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1685
tttaaacaca agtgcaaaag                                              20


<210>  1686
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1686
gaatgtgatc agtagaaagt                                              20


<210>  1687
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1687
tgcatcagaa gcaaagtaat                                              20


<210>  1688
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1688
aacatcatca tcttccagaa                                              20


<210>  1689
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1689
aagactggtg tgtttctgtc   20

<210> 1690
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1690
tgataaagtt ctgttgctag   20

<210> 1691
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1691
atgataaagt tctgttgcta   20

<210> 1692
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1692
tcccattatc agaactgact   20

<210> 1693
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1693
acaggcatca atttatccac   20

<210> 1694
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1694
cacaggcatc aatttatcca                                              20


<210>  1695
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1695
catcatagcc tctcagcaca                                              20


<210>  1696
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1696
aagtatggtg aaacaagtac                                              20


<210>  1697
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1697
gctttagata ctccaattaa                                              20


<210>  1698
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1698
ataaatcaca tcttctctta                                              20


<210>  1699
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  1699
tgtaatattt cgcttcctaa                                                    20


<210>  1700
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1700
actactgtaa tatttcgctt                                                    20


<210>  1701
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1701
aaactttttc aagtctttgt                                                    20


<210>  1702
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1702
gccaactgct tgcccgggaa                                                    20


<210>  1703
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1703
tcaacagagg gctacctcgc                                                    20


<210>  1704
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1704
gtgtgttcta tgacagcact   20

<210> 1705
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1705
attggtgtgt tctatgacag   20

<210> 1706
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1706
cataaatgaa ctgaagttgc   20

<210> 1707
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1707
agcaataaga atcaaacgcc   20

<210> 1708
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1708
caactcagtc agctcctcaa   20

<210> 1709
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1709
ccagcattaa tatgaactcc   20

<210> 1710
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1710
gaccagcatt aatatgaact   20

<210> 1711
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1711
aggaccagca ttaatatgaa   20

<210> 1712
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1712
taatgatagc ctcgtcccat   20

<210> 1713
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1713
cataatgata gcctcgtccc   20

<210> 1714
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1714
cacagcaagg tggaaagcca   20

<210> 1715
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1715
catagcctct cagcacagca   20

<210> 1716
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1716
atcaaggttt taaatacaaa   20

<210> 1717
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1717
gagtggaata attataactg   20

<210> 1718
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1718
ggtgaaacaa gtaccaattt   20

<210> 1719
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1719
cttccaccta cagataatag   20

<210> 1720
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1720
aattgtgcaa atatgttaag   20

<210> 1721
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1721
gtttgtgcta taaaattgtg   20

<210> 1722
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1722
acatgtacac atcccatctt   20

<210> 1723
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1723
taagcaaata taccacacat   20

<210> 1724
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1724
tctgtactcc agtctctgaa   20

<210> 1725
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1725
aacttttcct ttcttcttaa   20

<210> 1726
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1726
ccaaaaactt tttcaagtct   20

<210> 1727
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1727
atccactact gctgcaacat   20

<210> 1728
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1728
acccaaattc acagtatagt   20

<210> 1729
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   1729
taacttgttc cacaagcaat                                            20


<210>   1730
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1730
gtaacttgtt ccacaagcaa                                            20


<210>   1731
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1731
caaatcaggc agccgtttca                                            20


<210>   1732
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1732
catcaattta tccaccaaag                                            20


<210>   1733
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1733
ccagcaactg taaagggatc                                            20


<210>   1734
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

```
<400>  1734
gaaagccagc aactgtaaag                                                    20


<210>  1735
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1735
ttaatcatac agtttcgtac                                                    20


<210>  1736
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1736
ttcctaaatt tcttccacct                                                    20


<210>  1737
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1737
atacaaggaa ataaaaaca                                                     20


<210>  1738
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1738
tggctggcgg gatcggggt                                                     20


<210>  1739
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1739
ttcctttctt cttaataagc   20

<210> 1740
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1740
ttcccgattg tcatacatat   20

<210> 1741
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1741
cgtccatcca ctactgctgc   20

<210> 1742
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1742
attatcagaa ctgacttctg   20

<210> 1743
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1743
gcataagtgt gatctctcat   20

<210> 1744
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1744
ctgacacttg gcataagtgt   20

<210> 1745
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1745
tttcgtacat tttgtataga   20

<210> 1746
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1746
ttactgggaa aatgtaagag   20

<210> 1747
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1747
gaaacatatt gtcttctcag   20

<210> 1748
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1748
aatttttaga aacatattgt   20

<210> 1749
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1749
ttaaatgcac tactctttca   20

<210> 1750
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1750
aaacttggca aacccttccc   20

<210> 1751
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1751
gagcttggca attgtctctg   20

<210> 1752
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1752
catacatata cttaacgagc   20

<210> 1753
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1753
ccttccaatt gttggataac   20

<210> 1754
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1754
ccaactgctt gcccgggaaa   20

<210> 1755
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1755
catcatcttc cagaaagatg   20

<210> 1756
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1756
tctttgcgtc tttcttgcat   20

<210> 1757
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1757
ctgaagagca ttctgacact   20

<210> 1758
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1758
tcacagattt ggcaagattc   20

<210> 1759
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1759
ttttgtatag atattcctca                                            20


<210>  1760
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1760
tcaaggtttt aaatacaaaa                                            20


<210>  1761
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1761
cattattcaa agtcctccac                                            20


<210>  1762
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1762
tagctagaat ctttctgata                                            20


<210>  1763
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1763
ggagggtcca gaaatgcaac                                            20


<210>  1764
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1764
cagtttgatt taaaaacaaa   20

<210> 1765
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1765
tacccaacat gtacacatcc   20

<210> 1766
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1766
gcgggatcgg gggtgcacac   20

<210> 1767
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1767
acacaagtgc aaaagcacct   20

<210> 1768
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1768
tccactactg ctgcaacatc   20

<210> 1769
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1769
gtgtttgcac agctcgtccg   20

<210> 1770
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1770
ctctccttac agtaacgaag   20

<210> 1771
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1771
aaagttctgt tgctagtttc   20

<210> 1772
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1772
caaggatgcc ttcagagtgc   20

<210> 1773
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1773
ctcagcacag caaggtggaa   20

<210> 1774
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1774
atataaataa ggatttacta   20

<210> 1775
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1775
ttagaaacat attgtcttct   20

<210> 1776
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1776
tggtgaaaca agtaccaatt   20

<210> 1777
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1777
ggcaaaccct tccctaactg   20

<210> 1778
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1778
agtttgtgct ataaaattgt   20

<210> 1779
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1779
acgagcttcg gtgggcaatc   20

<210> 1780
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1780
tgcacacacg agcttcggtg   20

<210> 1781
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1781
catccactac tgctgcaaca   20

<210> 1782
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1782
cccatcaaag tatctgctgt   20

<210> 1783
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1783
agctcctctc tccttacagt   20

<210> 1784
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1784
gaactccaca atctgtctcc   20

<210> 1785
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1785
tcaaatcagg cagccgtttc   20

<210> 1786
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1786
ttctgaattt cgtcatccat   20

<210> 1787
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1787
atttatccac caaagccaga   20

<210> 1788
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1788
ggcaccttga tcgttctttt   20

<210> 1789
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1789
agtcacagat ttggcaagat   20

<210> 1790
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1790
aaaataatag ctagaatctt   20

<210> 1791
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1791
ttagatactc caattaaatg   20

<210> 1792
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1792
atatgttaag gattgagacc   20

<210> 1793
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1793
acacatccca tcttcaaatt   20

<210> 1794
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1794
tacacatccc atcttcaaat   20

<210> 1795
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1795
gactacagat acaaggaaat   20

<210> 1796
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1796
agactacaga tacaaggaaa   20

<210> 1797
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1797
cattgtgaat aacgataaat   20

<210> 1798
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1798
tccaaaaact ttttcaagtc   20

<210> 1799
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1799
ttgcatcaga agcaaagtaa                                                    20


<210>  1800
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1800
agaaagatga cgcgattggt                                                    20


<210>  1801
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1801
ttcaaaccac ccaaattcac                                                    20


<210>  1802
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1802
cttacagtaa cgaagaccca                                                    20


<210>  1803
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1803
tatcagaact gacttctgat                                                    20


<210>  1804
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1804
caagtagcat aatgatagcc   20

<210> 1805
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1805
ccagcaagga tgccttcaga   20

<210> 1806
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1806
ttatccacca aagccagagg   20

<210> 1807
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1807
tttatccacc aaagccagag   20

<210> 1808
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1808
acaggccgcc cctgccgagc   20

<210> 1809
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1809
cagcacagca aggtggaaag   20

<210> 1810
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1810
tggcaagatt ccgtgggaaa   20

<210> 1811
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1811
tcacatattg agtggaataa   20

<210> 1812
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1812
ggtaacttca caaaaatcac   20

<210> 1813
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1813
caaagtcctc cacaaattac   20

<210> 1814
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1814
atgaagtatg gtgaaacaag   20

<210> 1815
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1815
actgtaatat ttcgcttcct   20

<210> 1816
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1816
gatacccaac atgtacacat   20

<210> 1817
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1817
ctccagtctc tgaaggcctt   20

<210> 1818
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1818
tccatatctt gttgcttgtg   20

<210> 1819
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1819
ttccaaaaac tttttcaagt                                                      20


<210>  1820
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1820
cttggcaatt gtctctgtgt                                                      20


<210>  1821
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1821
cacaagtgca aaagcacctt                                                      20


<210>  1822
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1822
cttgtctttg cctgttctgt                                                      20


<210>  1823
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1823
gcagcttcct ttcttgtctt                                                      20


<210>  1824
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1824
attgcagctt cctttcttgt   20

<210> 1825
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1825
gttcacgaca gactctggct   20

<210> 1826
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1826
atgtgatcct tcaaaccacc   20

<210> 1827
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1827
atccccacag ttaaagctcc   20

<210> 1828
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1828
tgatccccac agttaaagct   20

<210> 1829
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1829
cgtcccatta tcagaactga                                           20


<210>  1830
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1830
agtggggcac cttgatcgtt                                           20


<210>  1831
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1831
gatcacgctg agaatgccct                                           20


<210>  1832
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1832
aaagggatca cgctgagaat                                           20


<210>  1833
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1833
aaaataaatc acatcttctc                                           20


<210>  1834
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1834
agatataaat cctaccaata   20

<210> 1835
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1835
taaatttctt ccacctacag   20

<210> 1836
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1836
ttgtgcaaat atgttaagga   20

<210> 1837
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1837
tgctataaaa ttgtgcaaat   20

<210> 1838
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1838
taaaatcata ttgtcagttg   20

<210> 1839
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1839
gtacacatcc catcttcaaa   20

<210> 1840
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1840
actacagata caaggaaata   20

<210> 1841
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1841
cgttcgagga acatggtagt   20

<210> 1842
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1842
caaggtgtac atcaaattct   20

<210> 1843
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1843
acgagcttgg caattgtctc   20

<210> 1844
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1844
ctgtccacac gagagagatt   20

<210> 1845
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1845
caggttgtgc tgtccacacg   20

<210> 1846
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1846
ggagtgtttg cacagctcgt   20

<210> 1847
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1847
tctggctgct caaatatttc   20

<210> 1848
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1848
tgtgatcctt caaaccaccc   20

<210> 1849
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1849
cctttatgtg atccttcaaa                                              20


<210>  1850
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1850
tggctggtat aagcctttgt                                              20


<210>  1851
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1851
tcgtcatcca tgctcagtac                                              20


<210>  1852
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1852
atagcctcgt cccattatca                                              20


<210>  1853
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1853
tctcatgatg atcatgatca                                              20


<210>  1854
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1854
acagcaaggt ggaaagccag   20

<210> 1855
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1855
gctagaatct ttctgataca   20

<210> 1856
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1856
atggtgaaac aagtaccaat   20

<210> 1857
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1857
gtatggtgaa acaagtacca   20

<210> 1858
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1858
tcttctctta aaacttggca   20

<210> 1859
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1859
agtctgagaa actaaggcta   20

<210> 1860
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1860
ctactgtaat atttcgcttc   20

<210> 1861
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1861
ccaccaatgc actactgtaa   20

<210> 1862
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1862
caaatttaaa atcatattgt   20

<210> 1863
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1863
ataaaaaaca cttttaggag   20

<210> 1864
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1864
agcttcggtg ggcaatctgc   20

<210> 1865
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1865
ttccaattgt tggataactc   20

<210> 1866
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1866
tgatcagtag aaagtttatg   20

<210> 1867
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1867
ctactgctgc aacatcatca   20

<210> 1868
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1868
tttgcacagc tcgtccgggg   20

<210> 1869
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1869
actctggctg ctcaaatatt   20

<210> 1870
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1870
caaaccaccc aaattcacag   20

<210> 1871
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1871
acttgttcca caagcaataa   20

<210> 1872
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1872
agtcagctcc tcaagaactt   20

<210> 1873
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1873
acagtaacga agacccatca   20

<210> 1874
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   1874
ttcgtcatcc atgctcagta                                                    20


<210>   1875
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1875
tctgttgcta gtttctgaat                                                    20


<210>   1876
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1876
ttatcagaac tgacttctga                                                    20


<210>   1877
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1877
tcgtcccatt atcagaactg                                                    20


<210>   1878
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   1878
aagattccgt gggaaatcaa                                                    20


<210>   1879
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 1879
cgtacatttt gtatagatat   20

<210> 1880
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1880
cttctcagat tgaagtggag   20

<210> 1881
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1881
aaatcacatc ttctcttaaa   20

<210> 1882
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1882
gcactactgt aatatttcgc   20

<210> 1883
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1883
atgatgccgg agacacggcc   20

<210> 1884
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1884
cccaatcttt atcattgcct   20

<210> 1885
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1885
gggggtggct attgacagga   20

<210> 1886
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1886
ggttgtgctg tccacacgag   20

<210> 1887
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1887
aggttgtgct gtccacacga   20

<210> 1888
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1888
gatggataga aagacgtcca   20

<210> 1889
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1889
ctctggctgc tcaaatattt   20

<210> 1890
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1890
actgccaact gtgtttgtga   20

<210> 1891
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1891
cttatcacaa attaccacag   .   20

<210> 1892
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1892
ccaagtatga gcatacactg   20

<210> 1893
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1893
tagatataaa tcctaccaat   20

<210> 1894
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1894
cacttttagg agatgaaaac                                              20


<210>  1895
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1895
gtgttgtgat tttaaagaac                                              20


<210>  1896
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1896
agtggctggc gggatcgggg                                              20


<210>  1897
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1897
gttcgaggaa catggtagtt                                              20


<210>  1898
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1898
tttccaaaaa ctttttcaag                                              20


<210>  1899
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1899
cgtcatccat gctcagtact   20

<210> 1900
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1900
agttctgttg ctagtttctg   20

<210> 1901
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1901
taaagttctg ttgctagttt   20

<210> 1902
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1902
caccttgatc gttctttttg   20

<210> 1903
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1903
attttgtata gatattcctc   20

<210> 1904
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1904
attattcaaa gtcctccaca   20

<210> 1905
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1905
tatggtgaaa caagtaccaa   20

<210> 1906
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1906
tttgatttaa aaacaaaaca   20

<210> 1907
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1907
aaatttaaaa tcatattgtc   20

<210> 1908
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1908
taaaagacta cagatacaag   20

<210> 1909
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1909
ataaaagact acagatacaa   20

<210> 1910
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1910
aataaaagac tacagataca   20

<210> 1911
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1911
acgccggcat ctctggatct   20

<210> 1912
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1912
ggtataagcc tttgtactgg   20

<210> 1913
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1913
gggcaaacat cacaagggat   20

<210> 1914
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1914
cgcccctgcc gagcaaccac   20

<210> 1915
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1915
gattgaagtg gagggtccag   20

<210> 1916
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1916
gatttaaaaa caaaacagaa   20

<210> 1917
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1917
gtttgattta aaaacaaaac   20

<210> 1918
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1918
tactgtaata tttcgcttcc   20

<210> 1919
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1919
ataaaattgt gcaaatatgt   20

<210> 1920
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1920
tgtgttgtga ttttaaagaa   20

<210> 1921
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1921
gtccacacga gagagattgc   20

<210> 1922
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1922
ccatccacta ctgctgcaac   20

<210> 1923
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1923
actggtgtgt ttctgtccag   20

<210> 1924
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1924
aacgaagacc catcaaagta   20

<210> 1925
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1925
tagcctcgtc ccattatcag   20

<210> 1926
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1926
attcaccagc aaggatgcct   20

<210> 1927
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1927
cattttgtat agatattcct   20

<210> 1928
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1928
tcaaagtcct ccacaaatta   20

<210> 1929
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1929
tagatactcc aattaaatgc   20

<210> 1930
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1930
taggagatga aaacacaaag   20

<210> 1931
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1931
aagactacag atacaaggaa   20

<210> 1932
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1932
cgggatcggg ggtgcacaca   20

<210> 1933
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1933
ccaaggtgta catcaaattc   20

<210> 1934
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1934
cttccaattg ttggataact   20

<210> 1935
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1935
catctggagt gtttgcacag   20

<210> 1936
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1936
gtgatccttc aaaccaccca   20

<210> 1937
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1937
ataagaatca aacgccggca   20

<210> 1938
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1938
ctcagtcagc tcctcaagaa   20

<210> 1939
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  1939
actcagtcag ctcctcaaga                                    20


<210>  1940
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1940
tctctttgcg tctttcttgc                                    20


<210>  1941
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1941
gtcccattat cagaactgac                                    20


<210>  1942
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1942
ccatgtttca attcaccagc                                    20


<210>  1943
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  1943
tatataaata aggatttact                                    20


<210>  1944
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 1944
tgcaacaccc agcattcttt   20

<210> 1945
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1945
tgaagtatgg tgaaacaagt   20

<210> 1946
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1946
ctgtgttgtg attttaaaga   20

<210> 1947
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1947
ggcgggatcg ggggtgcaca   20

<210> 1948
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1948
ggccaggggc gagtggctgg   20

<210> 1949
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1949
catatcttgt tgcttgtgaa   20

<210> 1950
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1950
caaaaacttt ttcaagtctt   20

<210> 1951
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1951
tacttaacga gcttggcaat   20

<210> 1952
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1952
tcccgattgt catacatata   20

<210> 1953
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1953
cccaaattca cagtatagtc   20

<210> 1954
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1954
gtgatcccca cagttaaagc   20

<210> 1955
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1955
atcaaatcag gcagccgttt   20

<210> 1956
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1956
ataaagttct gttgctagtt   20

<210> 1957
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1957
tcaattcacc agcaaggatg   20

<210> 1958
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1958
tgtttcaatt caccagcaag   20

<210> 1959
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1959
gtgatctctc atgatgatca   20

<210> 1960
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1960
cacaaattac cacaggccgc   20

<210> 1961
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1961
cagtcacaga tttggcaaga   20

<210> 1962
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1962
agctagaatc tttctgatac   20

<210> 1963
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1963
gggtccagaa atgcaacacc   20

<210> 1964
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1964
gacccaccaa tgcactactg   20

<210> 1965
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1965
ttaaaatcat attgtcagtt   20

<210> 1966
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1966
aataaaaaac acttttagga   20

<210> 1967
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1967
aatttaatag cagctctgtg   20

<210> 1968
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1968
ttcgaggaac atggtagttt   20

<210> 1969
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1969
ataaattcat tatttttatc 20

<210> 1970
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1970
aatgaacact tttaaacaca 20

<210> 1971
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1971
acacgagaga gattgcagct 20

<210> 1972
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1972
ctatgacagc acttgcatca 20

<210> 1973
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1973
agatgacgcg attggtgtgt 20

<210> 1974
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1974
cgatggatag aaagacgtcc   20

<210> 1975
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1975
tgtgatcccc acagttaaag   20

<210> 1976
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1976
ggcataagtg tgatctctca   20

<210> 1977
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1977
atttttagaa acatattgtc   20

<210> 1978
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1978
gaggaacatg gtagtttaag   20

<210> 1979
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1979
tcaaatccca caccagcaga   20

<210> 1980
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1980
gctgtccaca cgagagagat   20

<210> 1981
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1981
aaaaggcagg ttgtgctgtc   20

<210> 1982
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1982
gggaaaaggc aggttgtgct   20

<210> 1983
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1983
acgaagaccc atcaaagtat   20

<210> 1984
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1984
agtaacgaag acccatcaaa   20

<210> 1985
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1985
ttctgttgct agtttctgaa   20

<210> 1986
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1986
ctcgtcccat tatcagaact   20

<210> 1987
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1987
agcacagcaa ggtggaaagc   20

<210> 1988
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1988
agaggtaact tcacaaaaat   20

<210> 1989
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1989
aagtcctcca caaattactg   20

<210> 1990
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1990
gtgaaacaag taccaatttt   20

<210> 1991
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1991
atactccaat taaatgcact   20

<210> 1992
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1992
taaatcacat cttctcttaa   20

<210> 1993
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1993
aaattgtgca aatatgttaa   20

<210> 1994
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1994
tttgtgctat aaaattgtgc   20

<210> 1995
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1995
gcgagtggct ggcgggatcg   20

<210> 1996
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1996
tcgttcgagg aacatggtag   20

<210> 1997
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1997
acaccagcag aatcatatcc   20

<210> 1998
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1998
aatccatatc ttgttgcttg   20

<210> 1999
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 1999
ctttgctttc caaaaacttt   20

<210> 2000
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2000
caaggtagta aagctggtat   20

<210> 2001
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2001
caatcaacag agggctacct   20

<210> 2002
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2002
accaatcaac agagggctac   20

<210> 2003
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2003
ttatgttcac tccgtacacc   20

<210> 2004
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   2004
ccacacgaga gagattgcag                                          20


<210>   2005
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2005
tgtccacacg agagagattg                                          20


<210>   2006
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2006
ctcctctctc cttacagtaa                                          20


<210>   2007
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2007
aatctcagga ccagcattaa                                          20


<210>   2008
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2008
agcctcgtcc cattatcaga                                          20


<210>   2009
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 2009
tataactgat atataaataa   20

<210> 2010
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2010
tgaagtggag ggtccagaaa   20

<210> 2011
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2011
actccaatta aatgcactac   20

<210> 2012
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2012
caaaataaat cacatcttct   20

<210> 2013
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2013
actaaggcta accaaactta   20

<210> 2014
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2014
atacccaaca tgtacacatc   20

<210> 2015
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2015
cgagtggctg gcgggatcgg   20

<210> 2016
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2016
tccagtctct gaaggccttt   20

<210> 2017
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2017
aaggtgtaca tcaaattcta   20

<210> 2018
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2018
aaaacttttt caagtctttg   20

<210> 2019
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2019
gatcagtaga aagtttatgt   20

<210> 2020
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2020
tctatgacag cacttgcatc   20

<210> 2021
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2021
caacatcatc atcttccaga   20

<210> 2022
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2022
ccttcaaacc acccaaattc   20

<210> 2023
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2023
ttgacgtgtt gctacaccag   20

<210> 2024
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2024
caaagtatct gctgtctcac   20

<210> 2025
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2025
gctcctctct ccttacagta   20

<210> 2026
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2026
gctagtttct gaatttcgtc   20

<210> 2027
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2027
agcattctga cacttggcat   20

<210> 2028
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2028
gtggggcacc ttgatcgttc   20

<210> 2029
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2029
ggaaagccag caactgtaaa                                               20


<210>  2030
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2030
tcagcacagc aaggtggaaa                                               20


<210>  2031
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2031
catacagttt cgtacatttt                                              20


<210>  2032
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2032
gaaaataata gctagaatct                                              20


<210>  2033
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2033
tgtgcaaata tgttaaggat                                              20


<210>  2034
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2034
taaaattgtg caaatatgtt   20

<210> 2035
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2035
ggctggcggg atcgggggtg   20

<210> 2036
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2036
ccacaccagc agaatcatat   20

<210> 2037
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2037
ccaatcttta tcattgcctc   20

<210> 2038
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2038
gaataacgat aaattcatta   20

<210> 2039
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2039
gcaggttgtg ctgtccacac   20

<210> 2040
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2040
tcctctctcc ttacagtaac   20

<210> 2041
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2041
acaatctgtc tcccgtgata   20

<210> 2042
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2042
agggcaaaca tcacaaggga   20

<210> 2043
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2043
ttcaaagtcc tccacaaatt   20

<210> 2044
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2044
ctaaatttct tccacctaca   20

<210> 2045
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2045
agctctgtgt tgtgatttta   20

<210> 2046
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2046
cccgggaaaa tgaacacttt   20

<210> 2047
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2047
tgcccgggaa aatgaacact   20

<210> 2048
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2048
gtataggaat gtgatcagta   20

<210> 2049
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2049
tcacgacaga ctctggctgc   20

<210> 2050
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2050
tcaaaccacc caaattcaca   20

<210> 2051
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2051
ccacaagcaa taagaatcaa   20

<210> 2052
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2052
gaagacccat caaagtatct   20

<210> 2053
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2053
cagtaacgaa gacccatcaa   20

<210> 2054
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2054
gccccttcaa gacaagtagc   20

<210> 2055
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2055
gagtgcatat aagtaatttc   20

<210> 2056
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2056
cagtttcgta cattttgtat   20

<210> 2057
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2057
ttataactga tatataaata   20

<210> 2058
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2058
ttaaaacttg gcaaacccctt   20

<210> 2059
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2059
cttctcttaa aacttggcaa   20

<210> 2060
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2060
aagtctgaga aactaaggct   20

<210> 2061
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2061
tggcgggatc gggggtgcac   20

<210> 2062
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2062
aagtgcaaaa gcaccttcca   20

<210> 2063
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2063
caagtgcaaa agcaccttcc   20

<210> 2064
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2064
cacttttaaa cacaagtgca   20

<210> 2065
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2065
acaccaatca acagagggct   20

<210> 2066
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2066
tccacacgag agagattgca   20

<210> 2067
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2067
cttgcatcag aagcaaagta   20

<210> 2068
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2068
ttctatgaca gcacttgcat   20

<210> 2069
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2069
ttggtgtgtt ctatgacagc   20

<210> 2070
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2070
aacttgttcc acaagcaata   20

<210> 2071
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2071
caatctgtct cccgtgatat   20

<210> 2072
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2072
tctttcttgc atggagatcc   20

<210> 2073
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2073
ccaagcatga tctctttgcg   20

<210> 2074
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2074
atccaagcat gatctctttg   20

<210> 2075
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2075
tgctagtttc tgaatttcgt   20

<210> 2076
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2076
ctgccgagca accacttgct   20

<210> 2077
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2077
ctgcaagcag tccactgagt   20

<210> 2078
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2078
atctttctga tacagattcc   20

<210> 2079
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2079
tgtacacatc ccatcttcaa   20

<210> 2080
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2080
atcaaatccc acaccagcag   20

<210> 2081
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2081
ggcttcccaa tctttatcat   20

<210> 2082
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2082
aggtgtacat caaattctat   20

<210> 2083
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2083
tccacaatct gtctcccgtg   20

<210> 2084
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2084
ggctggtata agcctttgta   20

<210> 2085
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2085
gcaacaccca gcattcttta   20

<210> 2086
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2086
tttaaaaaca aaacagaaac   20

<210> 2087
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2087
ccaacatgta cacatcccat   20

<210> 2088
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2088
aaagactaca gatacaagga   20

<210> 2089
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2089
tggataactc tctccaccaa                                          20


<210>  2090
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2090
acaagtgcaa aagcaccttc                                          20


<210>  2091
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2091
catcagaagc aaagtaatac                                          20


<210>  2092
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2092
gtccatccac tactgctgca                                          20


<210>  2093
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2093
gatccttcaa accacccaaa                                          20


<210>  2094
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2094
ttatgtgatc cttcaaacca   20

<210> 2095
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2095
ctgatgataa agttctgttg   20

<210> 2096
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2096
tgaagagcat tctgacactt   20

<210> 2097
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2097
agtggaataa ttataactga   20

<210> 2098
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2098
aagaggtaac ttcacaaaaa   20

<210> 2099
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2099
ttctcttaaa acttggcaaa   20

<210> 2100
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2100
agtttgattt aaaaacaaaa   20

<210> 2101
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2101
aactaaggct aaccaaactt   20

<210> 2102
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2102
tcctttcttc ttaataagct   20

<210> 2103
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2103
aactgccaac tgtgtttgtg   20

<210> 2104
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2104
ctggctggta taagcctttg   20

<210> 2105
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2105
atcaatttat ccaccaaagc   20

<210> 2106
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2106
tttgtataga tattcctcac   20

<210> 2107
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2107
gggaaaatgt aagaggtaac   20

<210> 2108
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2108
ggtccagaaa tgcaacaccc   20

<210> 2109
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2109
atcttctctt aaaacttggc   20

<210> 2110
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2110
atttaaaaac aaaacagaaa   20

<210> 2111
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2111
gaaataaaaa acacttttag   20

<210> 2112
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2112
aaataaaaga ctacagatac   20

<210> 2113
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2113
ccaaatccat atcttgttgc   20

<210> 2114
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2114
tggcaattgt ctctgtgtct   20

<210> 2115
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2115
ttggcaattg tctctgtgtc   20

<210> 2116
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2116
cgattgtcat acatatactt   20

<210> 2117
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2117
caactgcttg cccgggaaaa   20

<210> 2118
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2118
gtcagctcct caagaacttg   20

<210> 2119
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2119
ggaccagcat taatatgaac   20

<210> 2120
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2120
cacaccaatc tcaggaccag   20

<210> 2121
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2121
gcgtctttct tgcatggaga   20

<210> 2122
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2122
ctttgcgtct ttcttgcatg   20

<210> 2123
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2123
gacaagtagc ataatgatag   20

<210> 2124
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2124
ggccatgttt caattcacca                                          20


<210>  2125
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2125
tcaatttatc caccaaagcc                                          20


<210>  2126
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2126
gtacattttg tatagatatt                                          20


<210>  2127
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2127
tacagtttcg tacattttgt                                          20


<210>  2128
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2128
atacagtttc gtacattttg                                          20


<210>  2129
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2129
tctttctgat acagattcca   20

<210> 2130
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2130
attgaagtgg agggtccaga   20

<210> 2131
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2131
gaagtatggt gaaacaagta   20

<210> 2132
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2132
caccaatcaa cagagggcta   20

<210> 2133
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2133
tgctgtccac acgagagaga   20

<210> 2134
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2134
gttctatgac agcacttgca   20

<210> 2135
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2135
gaacttgacg tgttgctaca   20

<210> 2136
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2136
catcaaagta tctgctgtct   20

<210> 2137
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2137
gggatcacgc tgagaatgcc   20

<210> 2138
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2138
ataactgata tataaataag   20

<210> 2139
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2139
ctagaatctt tctgatacag   20

<210> 2140
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2140
gtgcaaatat gttaaggatt   20

<210> 2141
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2141
caaatcccac accagcagaa   20

<210> 2142
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2142
tacatatact taacgagctt   20

<210> 2143
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2143
cagactctgg ctgctcaaat   20

<210> 2144
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2144
catgatctct ttgcgtcttt   20

<210> 2145
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2145
gtcatccatg ctcagtactt   20

<210> 2146
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2146
gtttcaattc accagcaagg   20

<210> 2147
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2147
tatccaccaa agccagaggg   20

<210> 2148
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2148
aaaatgtaag aggtaacttc   20

<210> 2149
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2149
ctacagataa tagacaacaa   20

<210> 2150
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2150
caccaatgca ctactgtaat   20

<210> 2151
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2151
aaataaaaaa cacttttagg   20

<210> 2152
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2152
caaatccata tcttgttgct   20

<210> 2153
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2153
acatatactt aacgagcttg   20

<210> 2154
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2154
ttgcccggga aaatgaacac   20

<210> 2155
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2155
atcaacagag ggctacctcg   20

<210> 2156
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2156
tactgctgca acatcatcat   20

<210> 2157
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2157
aagctcctct ctccttacag   20

<210> 2158
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2158
gatccccaca gttaaagctc   20

<210> 2159
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2159
cgtctttctt gcatggagat   20

<210> 2160
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2160
acaagtagca taatgatagc   20

<210> 2161
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2161
aattcaccag caaggatgcc   20

<210> 2162
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2162
tgagtggggc accttgatcg   20

<210> 2163
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2163
acagtttcgt acattttgta   20

<210> 2164
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2164
atgtaagagg taacttcaca   20

<210> 2165
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2165
tcaaatttaa aatcatattg   20

<210> 2166
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2166
atacttaacg agcttggcaa   20

<210> 2167
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2167
catatactta acgagcttgg   20

<210> 2168
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2168
aaatgaacac ttttaaacac   20

<210> 2169
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2169
tttatgttca ctccgtacac   20

<210> 2170
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2170
tatgtgatcc ttcaaaccac   20

<210> 2171
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2171
cctgcaagca gtccactgag   20

<210> 2172
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2172
atagcctctc agcacagcaa   20

<210> 2173
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2173
gtaagaggta acttcacaaa   20

<210> 2174
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2174
agaaacatat tgtcttctca   20

<210> 2175
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2175
caagtatgag catacactgc   20

<210> 2176
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2176
catgatgccg gagacacggc   20

<210> 2177
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2177
acttgcatca gaagcaaagt   20

<210> 2178
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2178
taagaatcaa acgccggcat   20

<210> 2179
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2179
aaagactggt gtgtttctgt   20

<210> 2180
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2180
cccacagtta aagctcctct   20

<210> 2181
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2181
gggcaccttg atcgttcttt   20

<210> 2182
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2182
acatcatagc ctctcagcac   20

<210> 2183
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2183
taagaggtaa cttcacaaaa   20

<210> 2184
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2184
atgcaacacc cagcattctt                                          20


<210>  2185
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2185
cccacaccag cagaatcata                                          20


<210>  2186
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2186
ccatcaaatc ccacaccagc                                          20


<210>  2187
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2187
aaggtagtaa agctggtatc                                          20


<210>  2188
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2188
aacacaagtg caaaagcacc                                          20


<210>  2189
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2189
ccgggaaaat gaacactttt   20

<210> 2190
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2190
ccgtacacca atcaacagag   20

<210> 2191
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2191
tataggaatg tgatcagtag   20

<210> 2192
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2192
tggtgtgttc tatgacagca   20

<210> 2193
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2193
gactctggct gctcaaatat   20

<210> 2194
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2194
aataagaatc aaacgccggc   20

<210> 2195
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2195
aagaacttga cgtgttgcta   20

<210> 2196
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2196
ccacaatctg tctcccgtga   20

<210> 2197
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2197
gagcattctg acacttggca   20

<210> 2198
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2198
gaataattat aactgatata   20

<210> 2199
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2199
aatatagatt ccattattca   20

<210> 2200
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2200
agatactcca attaaatgca   20

<210> 2201
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2201
tggcaaaccc ttccctaact   20

<210> 2202
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2202
aaaacttggc aaacccttcc   20

<210> 2203
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2203
tcaaaataaa tcacatcttc   20

<210> 2204
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2204
aatatgttaa ggattgagac   20

<210> 2205
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2205
tataaaattg tgcaaatatg   20

<210> 2206
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2206
gattgtcata catatactta   20

<210> 2207
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2207
gcccgggaaa atgaacactt   20

<210> 2208
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2208
gcagttcgtt taattcgatg   20

<210> 2209
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2209
atcaaacgcc ggcatctctg   20

<210> 2210
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2210
aagcaataag aatcaaacgc   20

<210> 2211
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2211
atctgctgtc tcacctgatt   20

<210> 2212
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2212
acccatcaaa gtatctgctg   .   20

<210> 2213
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2213
ttgcgtcttt cttgcatgga   20

<210> 2214
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2214
ccgagcaacc acttgctgaa   20

<210> 2215
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2215
cctgccgagc aaccacttgc   20

<210> 2216
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2216
gcccctgccg agcaaccact   20

<210> 2217
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2217
ggccgcccct gccgagcaac   20

<210> 2218
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2218
agggatcacg ctgagaatgc   20

<210> 2219
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2219
caacatcata gcctctcagc   20

<210> 2220
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2220
ggcaagattc cgtgggaaat   20

<210> 2221
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2221
tggagggtcc agaaatgcaa   20

<210> 2222
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2222
tactccaatt aaatgcacta   20

<210> 2223
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2223
tcctaaattt cttccaccta   20

<210> 2224
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2224
cctttgcttt ccaaaaactt   20

<210> 2225
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2225
tacaccaatc aacagagggc   20

<210> 2226
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2226
tccgtacacc aatcaacaga   20

<210> 2227
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2227
tatgttcact ccgtacacca   20

<210> 2228
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2228
atcagtagaa agtttatgtt   20

<210> 2229
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2229
agaacttgac gtgttgctac   20

<210> 2230
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2230
tgcactactg taatatttcg   20

<210> 2231
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2231
aaaataaaag actacagata   20

<210> 2232
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2232
aaatccatat cttgttgctt   20

<210> 2233
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2233
ggtgtacatc aaattctata   20

<210> 2234
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2234
aatcaacaga gggctacctc                                                   20


<210>  2235
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2235
acagactctg gctgctcaaa                                                   20


<210>  2236
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2236
tttatgtgat ccttcaaacc                                                   20


<210>  2237
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2237
aacttgacgt gttgctacac                                                   20


<210>  2238
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2238
aaagtatctg ctgtctcacc                                                   20


<210>  2239
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  2239
gcctcgtccc attatcagaa                                              20


<210>  2240
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2240
agacaagtag cataatgata                                              20


<210>  2241
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2241
aagggatcac gctgagaatg                                              20


<210>  2242
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2242
gcacagcaag gtggaaagcc                                              20


<210>  2243
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2243
atatataaat aaggatttac                                              20


<210>  2244
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2244
cacatcttct cttaaaactt   20

<210> 2245
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2245
ttccacctac agataataga   20

<210> 2246
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2246
gtactccagt ctctgaaggc   20

<210> 2247
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2247
cacaccagca gaatcatatc   20

<210> 2248
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2248
atatacttaa cgagcttggc   20

<210> 2249
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2249
attgtcatac atatacttaa   20

<210> 2250
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2250
gaaagatgac gcgattggtg   20

<210> 2251
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2251
gcaacatcat catcttccag   20

<210> 2252
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2252
tctccttaca gtaacgaaga   20

<210> 2253
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2253
attataactg atatataaat   20

<210> 2254
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2254
gtggaataat tataactgat   20

<210> 2255
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2255
tgtaagaggt aacttcacaa   20

<210> 2256
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2256
caatatagat tccattattc   20

<210> 2257
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2257
atgcactact gtaatatttc   20

<210> 2258
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2258
ctataaaatt gtgcaaatat   20

<210> 2259
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2259
ggatcggggg tgcacacacg   20

<210> 2260
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2260
tcccacacca gcagaatcat   20

<210> 2261
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2261
gtttatgttc actccgtaca   20

<210> 2262
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2262
ataggaatgt gatcagtaga   20

<210> 2263
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2263
aaaggcaggt tgtgctgtcc   20

<210> 2264
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2264
tctcgaaaga ctggtgtgtt   20

<210> 2265
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2265
actggctggt ataagccttt   20

<210> 2266
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2266
taagggcaaa catcacaagg   20

<210> 2267
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2267
aatcaaatca ggcagccgtt   20

<210> 2268
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2268
atatagattc cattattcaa   20

<210> 2269
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2269
ttaaaaacaa aacagaaaca   20

<210> 2270
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2270
ttcaaattta aaatcatatt   20

<210> 2271
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2271
taccacacat gatgccggag   20

<210> 2272
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2272
ctttatgtga tccttcaaac   20

<210> 2273
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2273
aacgccggca tctctggatc   20

<210> 2274
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2274
aactcagtca gctcctcaag   20

<210> 2275
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2275
caatctcagg accagcatta   20

<210> 2276
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2276
ggcaaacatc acaagggata   20

<210> 2277
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2277
ttgtatagat attcctcact   20

<210> 2278
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2278
aacttggcaa acccttccct   20

<210> 2279
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2279
accaatgcac tactgtaata                                              20


<210>  2280
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2280
aaaaataaaa gactacagat                                              20


<210>  2281
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2281
gttgtgattt taaagaacaa                                              20


<210>  2282
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2282
gatcgggggt gcacacacga                                              20


<210>  2283
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2283
gctggcggga tcgggggtgc                                              20


<210>  2284
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>   2284
accacacatg atgccggaga                                          20


<210>   2285
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2285
tttgcaggca ttggcttccc                                          20


<210>   2286
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2286
agtataggaa tgtgatcagt                                          20


<210>   2287
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2287
tgcagttcgt ttaattcgat                                          20


<210>   2288
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2288
agtgtttgca cagctcgtcc                                          20


<210>   2289
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 2289
atctctttgc gtctttcttg   20

<210> 2290
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2290
tttcgtcatc catgctcagt   20

<210> 2291
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2291
ctcatgatga tcatgatcac   20

<210> 2292
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2292
gaagagcatt ctgacacttg   20

<210> 2293
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2293
ttgatttaaa aacaaaacag   20

<210> 2294
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2294
cagataatag acaacaagtc   20

<210> 2295
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2295
agacccacca atgcactact   20

<210> 2296
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2296
atacatatac ttaacgagct   20

<210> 2297
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2297
agactctggc tgctcaaata   20

<210> 2298
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2298
aatttcgtca tccatgctca   20

<210> 2299
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2299
tctgaatttc gtcatccatg   20

<210> 2300
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2300
gctgaagagc attctgacac   20

<210> 2301
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2301
cacaggccgc ccctgccgag   20

<210> 2302
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2302
aaggtggaaa gccagcaact   20

<210> 2303
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2303
atcatagcct ctcagcacag   20

<210> 2304
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

461

<400> 2304
gaatctttct gatacagatt   20

<210> 2305
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2305
taaaattttt cagttttaag   20

<210> 2306
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2306
ttcacgacag actctggctg   20

<210> 2307
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2307
tgacgtgttg ctacaccagc   20

<210> 2308
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2308
tttgcgtctt tcttgcatgg   20

<210> 2309
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2309
caacaagtct gagaaactaa   20

<210> 2310
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2310
tgttgtgatt ttaaagaaca   20

<210> 2311
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2311
atcgggggtg cacacacgag   20

<210> 2312
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2312
cctttcttct taataagctg   20

<210> 2313
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2313
aaggcaggtt gtgctgtcca   20

<210> 2314
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2314
caataagaat caaacgccgg   20

<210> 2315
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2315
gcaataagaa tcaaacgccg   20

<210> 2316
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2316
ggaactgcca actgtgtttg   20

<210> 2317
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2317
aacatcatag cctctcagca   20

<210> 2318
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2318
acagtcacag atttggcaag   20

<210> 2319
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2319
tatagattcc attattcaaa                                              20


<210>  2320
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2320
agaatctttc tgatacagat                                              20


<210>  2321
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2321
ttgaagtgga gggtccagaa                                              20


<210>  2322
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2322
tcttctcaga ttgaagtgga                                              20


<210>  2323
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2323
aaacaagtac caatttttag                                              20


<210>  2324
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>  2324
tctcttaaaa cttggcaaac                                                    20


<210>  2325
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2325
atttttcagt tttaagtttt                                                    20


<210>  2326
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2326
aataaaattt ttcagtttta                                                    20


<210>  2327
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2327
aaaattgtgc aaatatgtta                                                    20


<210>  2328
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2328
caacatgtac acatcccatc                                                    20


<210>  2329
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2329
ctgcttgccc gggaaaatga   20

<210> 2330
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2330
tatgacagca cttgcatcag   20

<210> 2331
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2331
tccttcaaac cacccaaatt   20

<210> 2332
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2332
tgatgataaa gttctgttgc   20

<210> 2333
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2333
tggaaagcca gcaactgtaa   20

<210> 2334
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2334
acattttgta tagatattcc                                              20


<210>  2335
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2335
aatgtaagag gtaacttcac                                              20


<210>  2336
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2336
caacacccag cattctttaa                                              20


<210>  2337
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2337
acaaatttca aaataaatca                                              20


<210>  2338
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2338
ataaaatttt tcagttttaa                                              20


<210>  2339
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

```
<400>   2339
aactgcttgc ccgggaaaat                                              20


<210>   2340
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2340
caagcaataa gaatcaaacg                                              20


<210>   2341
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2341
aaagctcctc tctccttaca                                              20


<210>   2342
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2342
gaaacaagta ccaattttta                                              20


<210>   2343
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2343
gatactccaa ttaaatgcac                                              20


<210>   2344
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

<400> 2344
atccaaatcc atatcttgtt   20

<210> 2345
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2345
gtagaaagtt tatgttcact   20

<210> 2346
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2346
taggaatgtg atcagtagaa   20

<210> 2347
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2347
caagaacttg acgtgttgct   20

<210> 2348
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2348
gaactgccaa ctgtgtttgt   20

<210> 2349
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2349
gttctgttgc tagtttctga   20

<210> 2350
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2350
cccctgccga gcaaccactt   20

<210> 2351
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2351
acttggcaaa cccttcccta   20

<210> 2352
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2352
ttcaaaataa atcacatctt   20

<210> 2353
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2353
aaaagactac agatacaagg   20

<210> 2354
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2354
aaaaaataaa agactacaga   20

<210> 2355
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2355
agcagtcatt taaaaaataa   20

<210> 2356
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2356
ttgtgatttt aaagaacaag   20

<210> 2357
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2357
tctgtgttgt gattttaaag   20

<210> 2358
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2358
ctccgtacac caatcaacag   20

<210> 2359
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2359
aaagatgacg cgattggtgt   20

<210> 2360
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2360
gctgcaacat catcatcttc   20

<210> 2361
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2361
tcgatggata gaaagacgtc   20

<210> 2362
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2362
ttgcacagct cgtccggggt   20

<210> 2363
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2363
tgatccttca aaccacccaa   20

<210> 2364
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2364
tgcaagcagt ccactgagtg   20

<210> 2365
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2365
tagaatcttt ctgatacaga   20

<210> 2366
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2366
taaaacttgg caaacccttc   20

<210> 2367
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2367
aatttttcag ttttaagttt   20

<210> 2368
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2368
agataataga caacaagtct   20

<210> 2369
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

474

```
<400>  2369
atgtcattca gcagtcattt                                              20


<210>  2370
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2370
tcgggggtgc acacacgagc                                              20


<210>  2371
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2371
atgttcactc cgtacaccaa                                              20


<210>  2372
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2372
gacccatcaa agtatctgct                                              20


<210>  2373
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2373
tggaactgcc aactgtgttt                                              20


<210>  2374
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2374
gtctttcttg catggagatc   20

<210> 2375
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2375
ggatcacgct gagaatgccc   20

<210> 2376
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2376
atagattcca ttattcaaag   20

<210> 2377
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2377
gtccagaaat gcaacaccca   20

<210> 2378
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2378
tgaaacaagt accaattttt   20

<210> 2379
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2379
aacaagtctg agaaactaag   20

<210> 2380
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2380
gctataaaat tgtgcaaata   20

<210> 2381
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2381
tactccagtc tctgaaggcc   20

<210> 2382
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2382
atgacagcac ttgcatcaga   20

<210> 2383
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2383
aagatgacgc gattggtgtg   20

<210> 2384
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2384
tcaaacgccg gcatctctgg   20

<210> 2385
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2385
caagcatgat ctctttgcgt   20

<210> 2386
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2386
gccatgtttc aattcaccag   20

<210> 2387
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2387
tccactgagt ggggcacctt   20

<210> 2388
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2388
atcacgctga gaatgccctg   20

<210> 2389
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2389
caagattccg tgggaaatca   20

<210> 2390
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2390
gaggtaactt cacaaaaatc   20

<210> 2391
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2391
taaagaaaat aatagctaga   20

<210> 2392
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2392
tacagataat agacaacaag   20

<210> 2393
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2393
tccacctaca gataatagac   20

<210> 2394
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2394
caatgcacta ctgtaatatt   20

<210> 2395
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2395
ataccacaca tgatgccgga   20

<210> 2396
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2396
catcaaatcc cacaccagca   20

<210> 2397
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2397
ttcttaataa gctgggtttt   20

<210> 2398
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2398
gcctttgctt tccaaaaact   20

<210> 2399
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2399
gtgttctatg acagcacttg   20

<210> 2400
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2400
acaccagcat ggtaacttgt   20

<210> 2401
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2401
gcatgatctc tttgcgtctt   20

<210> 2402
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2402
agccagaggg ccatgtttca   20

<210> 2403
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2403
aacacccagc attctttaaa   20

<210> 2404
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2404
gaaacaaatt tcaaataaa   20

<210> 2405
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2405
caagtctgag aaactaaggc   20

<210> 2406
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2406
acagataata gacaacaagt   20

<210> 2407
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2407
cacacacgag cttcggtggg   20

<210> 2408
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2408
gggcgagtgg ctggcgggat   20

<210> 2409
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>   2409
atcccacacc agcagaatca                                                    20


<210>   2410
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2410
tgcaacatca tcatcttcca                                                    20


<210>   2411
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2411
aagggcaaac atcacaaggg                                                    20


<210>   2412
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2412
taatcaaatc aggcagccgt                                                    20


<210>   2413
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense

<400>   2413
agaaaataat agctagaatc                                                    20


<210>   2414
<211>   20
<212>   DNA
<213>   artificial

<220>
<223>   human GFAT antisense
```

```
<400>  2414
gtcttctcag attgaagtgg                                                    20


<210>  2415
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2415
tccaaatcca tatcttgttg                                                    20


<210>  2416
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2416
aaaaactttt tcaagtcttt                                                    20


<210>  2417
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2417
cacgacagac tctggctgct                                                    20


<210>  2418
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2418
ctcctcaaga acttgacgtg                                                    20


<210>  2419
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2419
aactggctgg tataagcctt   20

<210> 2420
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2420
tacaaactgg ctggtataag   20

<210> 2421
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2421
ggtggaaagc cagcaactgt   20

<210> 2422
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2422
gcctctcagc acagcaaggt   20

<210> 2423
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2423
ctttctgata cagattccaa   20

<210> 2424
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2424
ttaaggattg agacccacca   20

<210> 2425
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2425
cttcaaattt aaaatcatat   20

<210> 2426
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2426
aacatgtaca catcccatct   20

<210> 2427
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2427
tatgtcattc agcagtcatt   20

<210> 2428
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2428
aaatcccaca ccagcagaat   20

<210> 2429
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2429
tatacttaac gagcttggca   20

<210> 2430
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2430
tagaaagttt atgttcactc   20

<210> 2431
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2431
tcatcttcca gaaagatgac   20

<210> 2432
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2432
tacattttgt atagatattc   20

<210> 2433
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2433
aattataact gatatataaa   20

<210> 2434
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2434
aggtaacttc acaaaaatca   20

<210> 2435
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2435
aatctttctg atacagattc   20

<210> 2436
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2436
aaagaaaata atagctagaa   20

<210> 2437
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2437
tttaaagaaa ataatagcta   20

<210> 2438
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2438
aacaaatttc aaaataaatc   20

<210> 2439
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2439
acatcccatc ttcaaattta   20

<210> 2440
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2440
ctctgtgttg tgattttaaa   20

<210> 2441
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2441
ggggcgagtg gctggcggga   20

<210> 2442
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2442
ttgcctgttc tgtagagtat   20

<210> 2443
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2443
tccatccact actgctgcaa   20

<210> 2444
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2444
ttcgatggat agaaagacgt   20

<210> 2445
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2445
acaagcaata agaatcaaac   20

<210> 2446
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2446
cacaagcaat aagaatcaaa   20

<210> 2447
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2447
tcacgctgag aatgccctgc   20

<210> 2448
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2448
gatatataaa taaggattta   20

<210> 2449
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2449
ttaaagaaaa taatagctag                                              20


<210>  2450
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2450
caaatttcaa aataaatcac                                              20


<210>  2451
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2451
tgatttaaaa acaaaacaga                                              20


<210>  2452
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2452
acaagtctga gaaactaagg                                              20


<210>  2453
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2453
cgcttcctaa atttcttcca                                              20


<210>  2454
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2454
ccacacatga tgccggagac   20

<210> 2455
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2455
cagttcgttt aattcgatgg   20

<210> 2456
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2456
ccttacagta acgaagaccc   20

<210> 2457
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2457
atttcgtcat ccatgctcag   20

<210> 2458
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2458
caaggtggaa agccagcaac   20

<210> 2459
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2459
taactgatat ataaataagg   20

<210> 2460
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2460
ccaataaaat ttttcagttt   20

<210> 2461
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2461
acaacaagtc tgagaaacta   20

<210> 2462
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2462
ccacctacag ataatagaca   20

<210> 2463
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2463
atatgtcatt cagcagtcat   20

<210> 2464
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2464
ttgcaggcat tggcttccca                                              20


<210>  2465
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2465
cttaataagc tgggttttgc                                              20


<210>  2466
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2466
gaatttcgtc atccatgctc                                              20


<210>  2467
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2467
taaaaacaaa acagaaacaa                                              20


<210>  2468
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2468
aatgcactac tgtaatattt                                              20


<210>  2469
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2469
gagacccacc aatgcactac   20

<210> 2470
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2470
gtacatcaaa ttctatatcc   20

<210> 2471
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2471
gacagactct ggctgctcaa   20

<210> 2472
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2472
atccttcaaa ccacccaaat   20

<210> 2473
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2473
tcagctcctc aagaacttga   20

<210> 2474
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2474
tccttacagt aacgaagacc   20

<210> 2475
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2475
aggtggaaag ccagcaactg   20

<210> 2476
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2476
tagcctctca gcacagcaag   20

<210> 2477
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2477
tttcaaaata aatcacatct   20

<210> 2478
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2478
gataatagac aacaagtctg   20

<210> 2479
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2479
catcccatct tcaaatttaa   20

<210> 2480
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2480
tagcctttgc tttccaaaaa   20

<210> 2481
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2481
acacttttaa acacaagtgc   20

<210> 2482
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2482
atcatcttcc agaaagatga   20

<210> 2483
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2483
caaacgccgg catctctgga   20

<210> 2484
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2484
aagtatctgc tgtctcacct 20

<210> 2485
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2485
acaaattacc acaggccgcc 20

<210> 2486
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2486
gtccactgag tggggcacct 20

<210> 2487
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2487
ggaaaatgta agaggtaact 20

<210> 2488
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2488
accaataaaa tttttcagtt 20

<210> 2489
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

```
<400>  2489
ctaccaataa aatttttcag                                              20


<210>  2490
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2490
cttcctaaat ttcttccacc                                              20


<210>  2491
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2491
tgtgatttta aagaacaaga                                              20


<210>  2492
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2492
tcttaataag ctgggttttg                                              20


<210>  2493
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense

<400>  2493
gtgtacatca aattctatat                                              20


<210>  2494
<211>  20
<212>  DNA
<213>  artificial

<220>
<223>  human GFAT antisense
```

<400> 2494
actccgtaca ccaatcaaca   20

<210> 2495
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2495
aggaatgtga tcagtagaaa   20

<210> 2496
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2496
ggaaaaggca ggttgtgctg   20

<210> 2497
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2497
tgttctatga cagcacttgc   20

<210> 2498
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense

<400> 2498
caccagcatg gtaacttgtt   20

<210> 2499
<211> 20
<212> DNA
<213> artificial

<220>
<223> human GFAT antisense